TOOLS FOR MONITORING COASTAL CHANGE IN ALASKA

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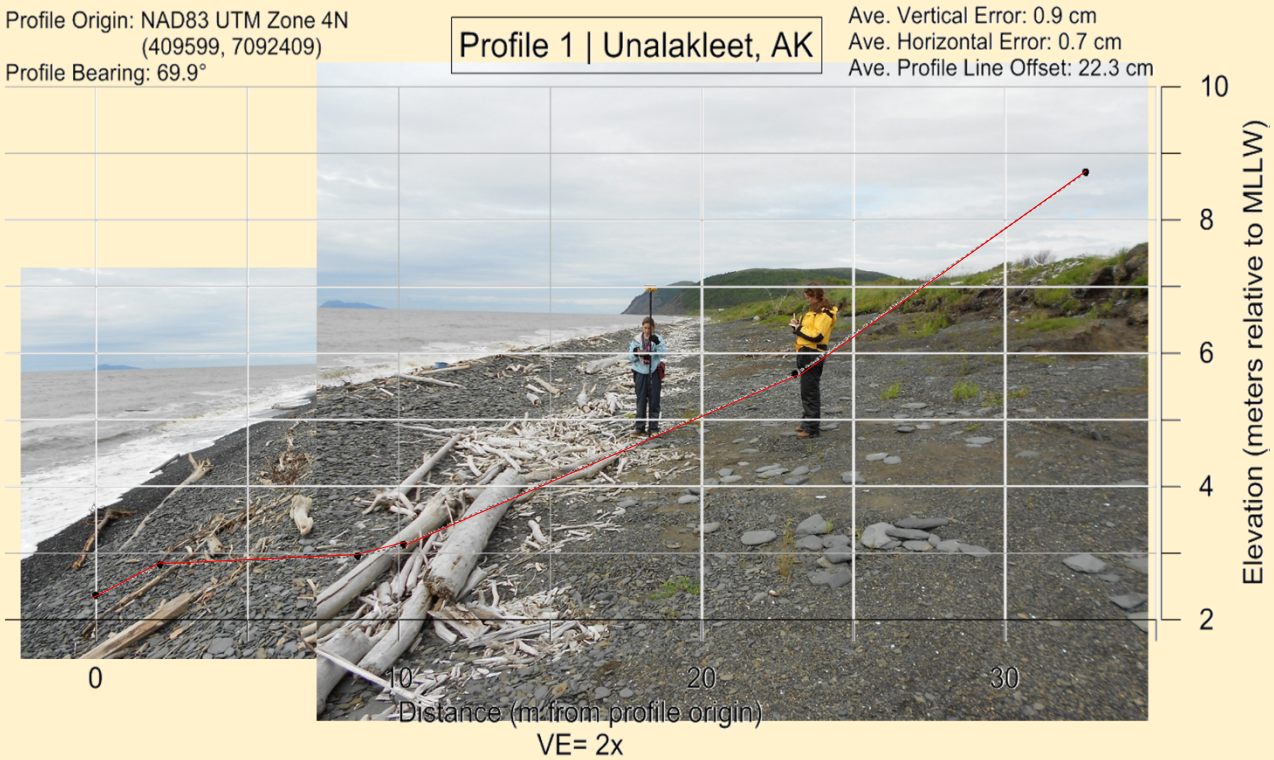
Coastal Hazards Program Manager

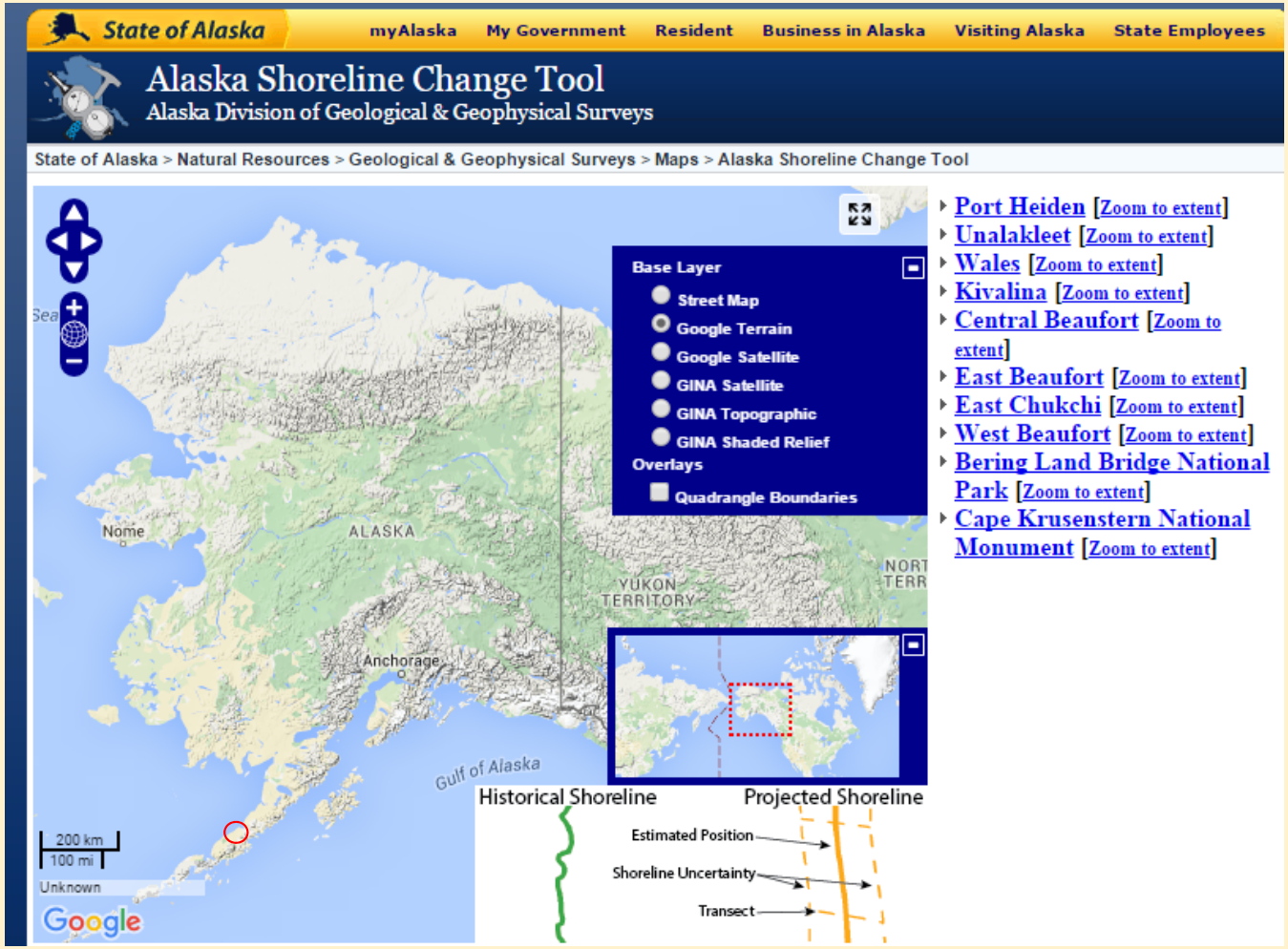
SHORELINES



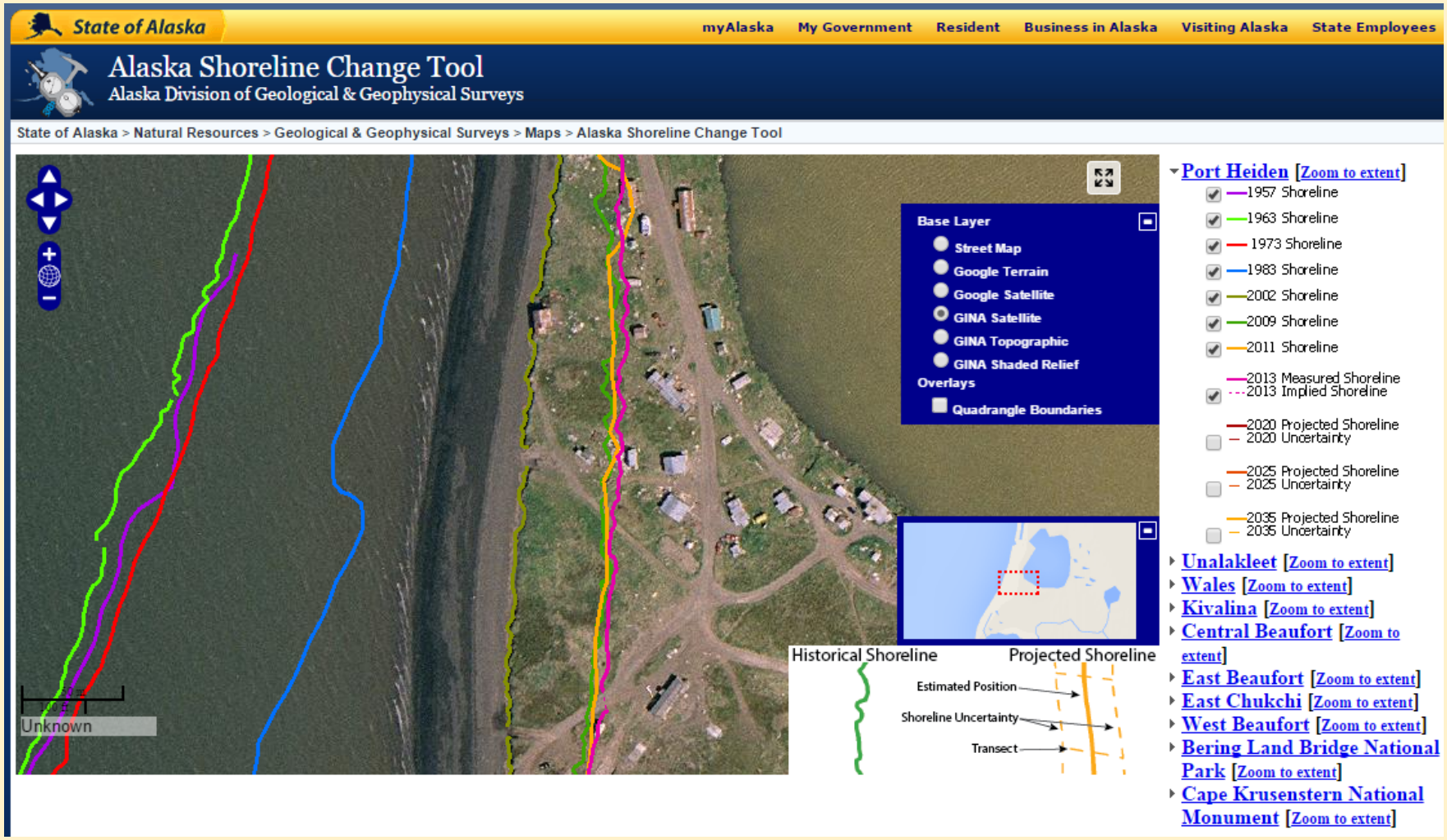
CROSS SHORE PROFILE

SHORELINE POSITION

ALASKA SHORELINE CHANGE TOOL



ALASKA SHORELINE CHANGE TOOL



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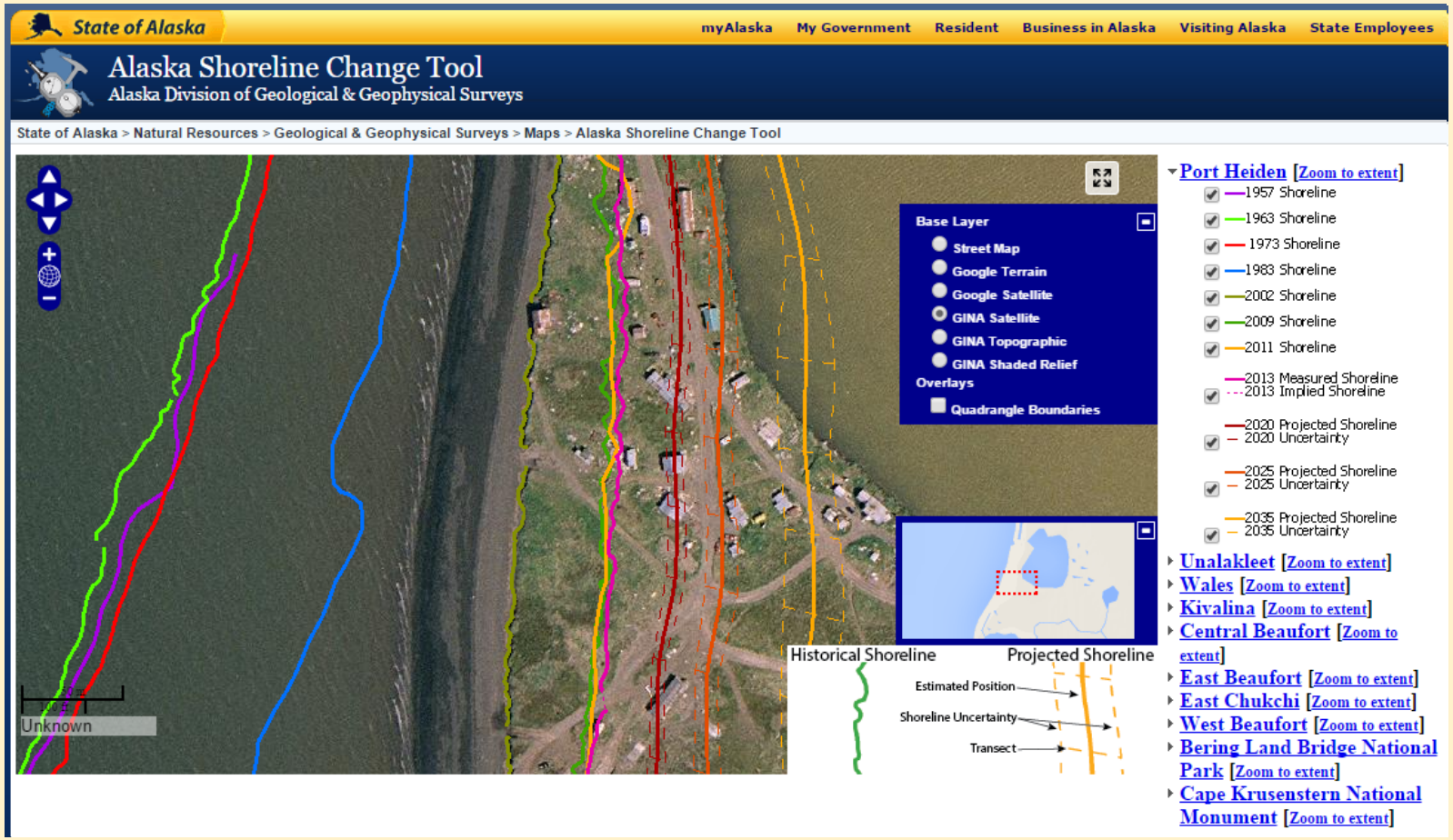
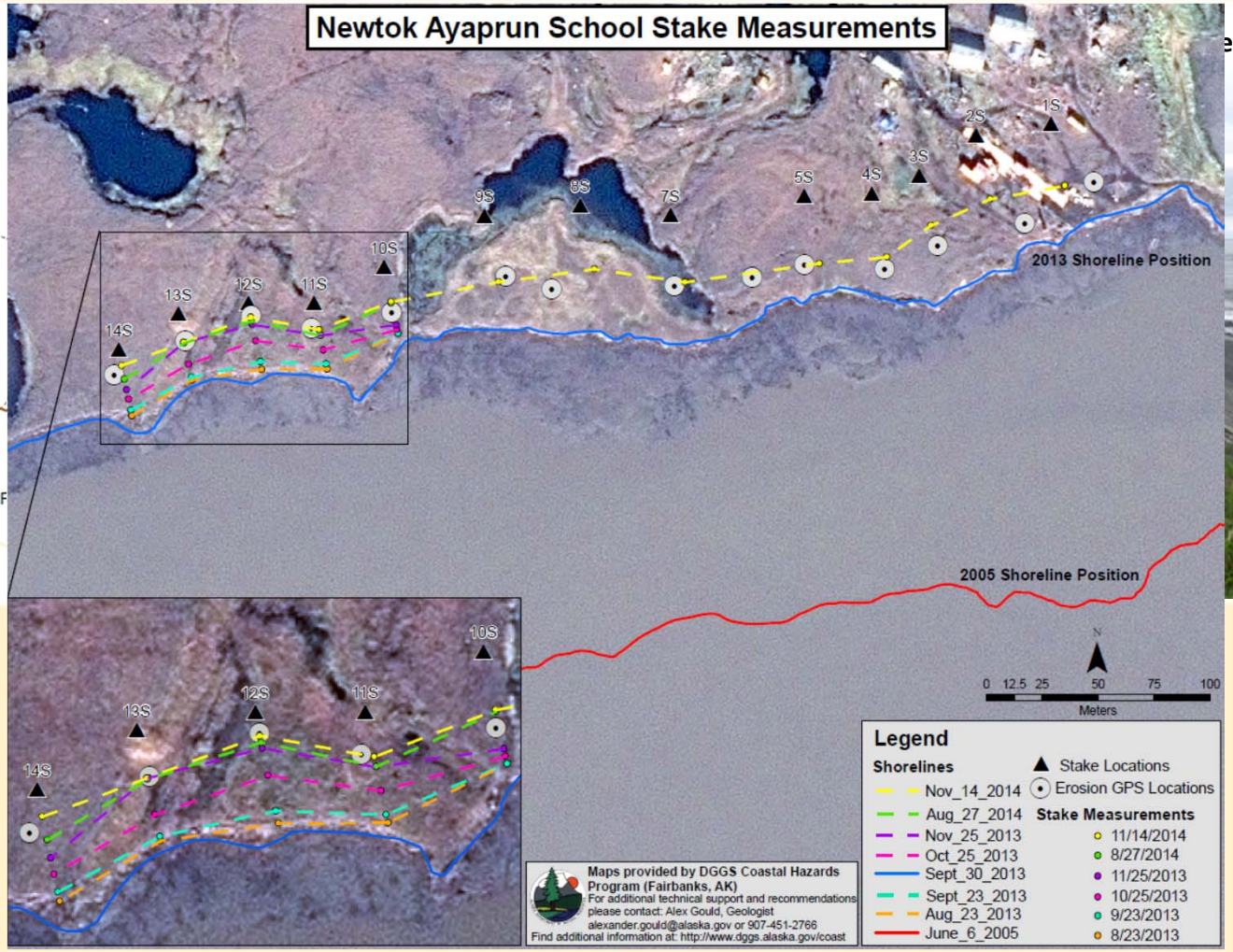


http://maps.dggs.alaska.gov/shoreline/

ALASKA SHORELINE CHANGE TOOL

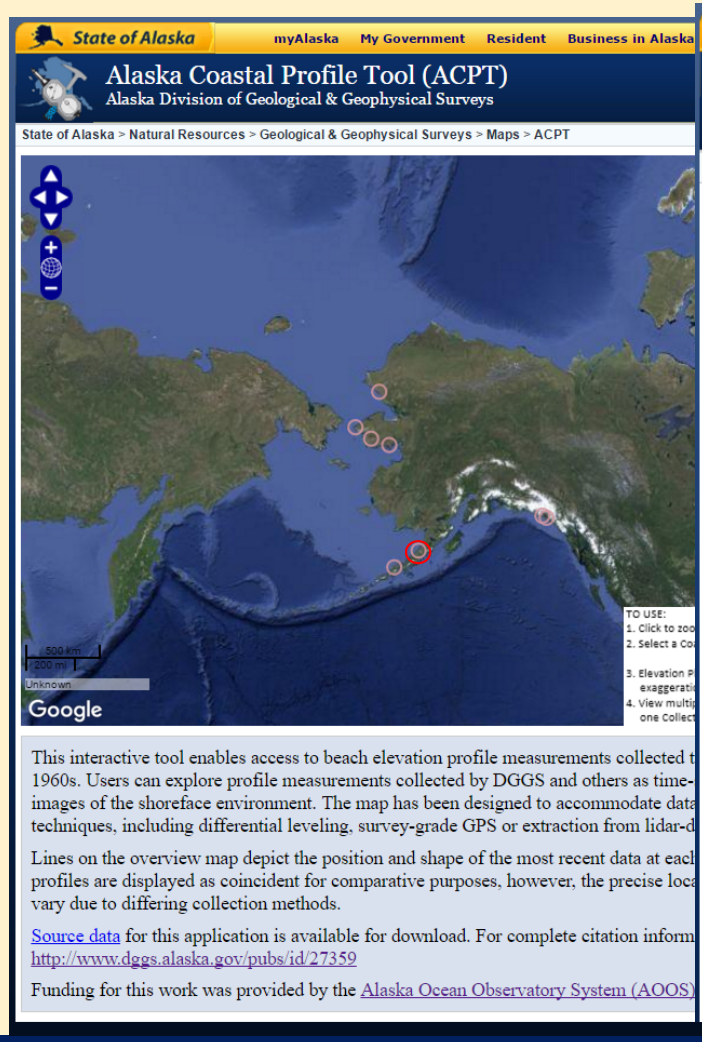


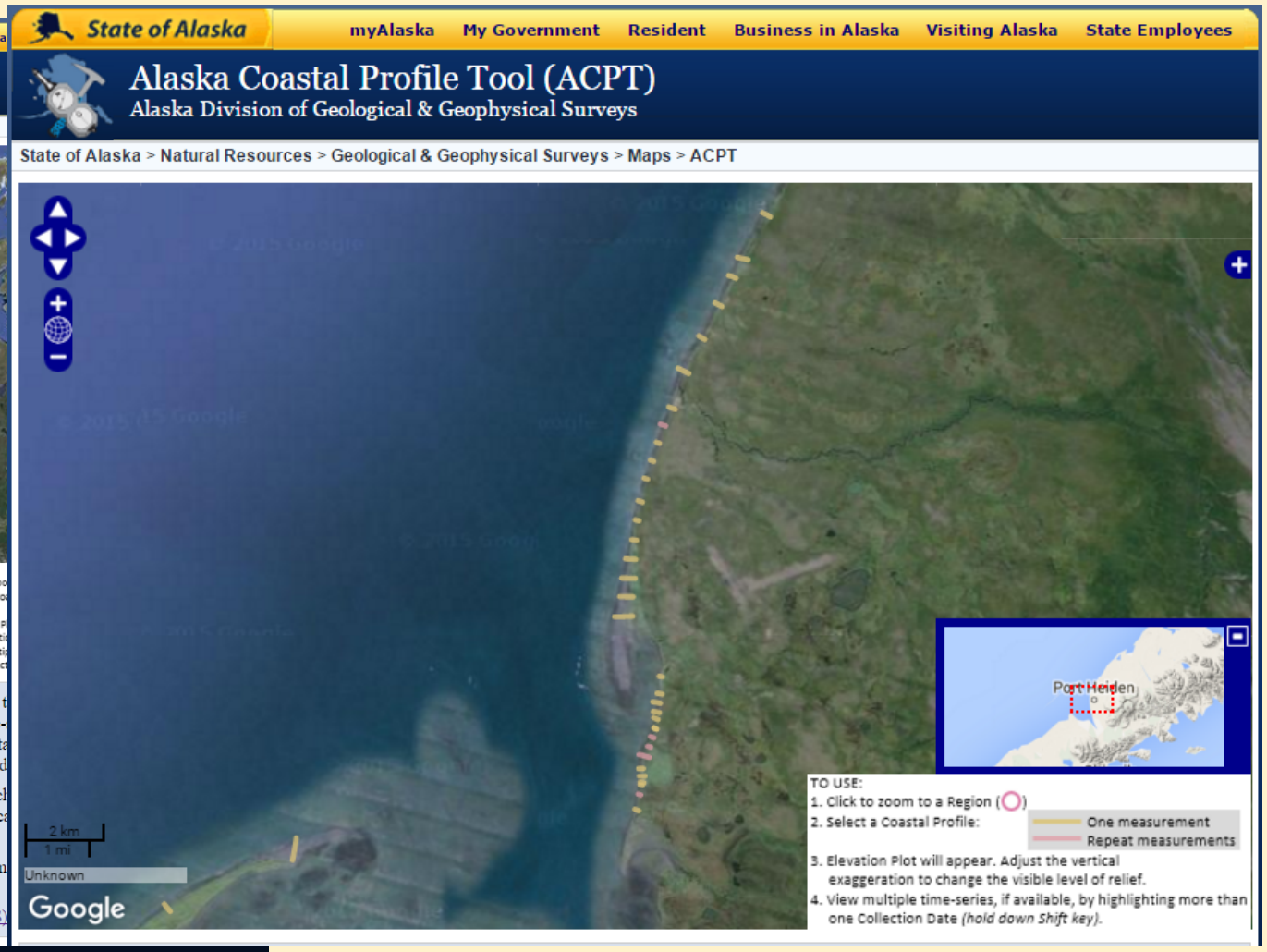
BRISTOL BAY NATIVE ASSOCIATION

UAF UNIVERSITY OF ALASKA FAIRBANKS

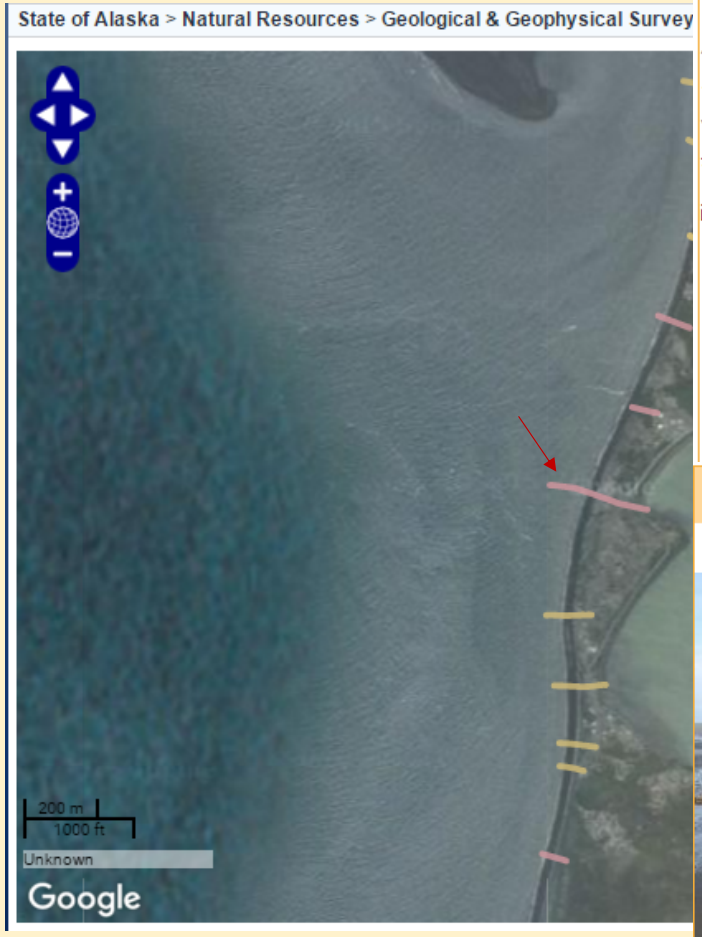
Sea Grant Alaska

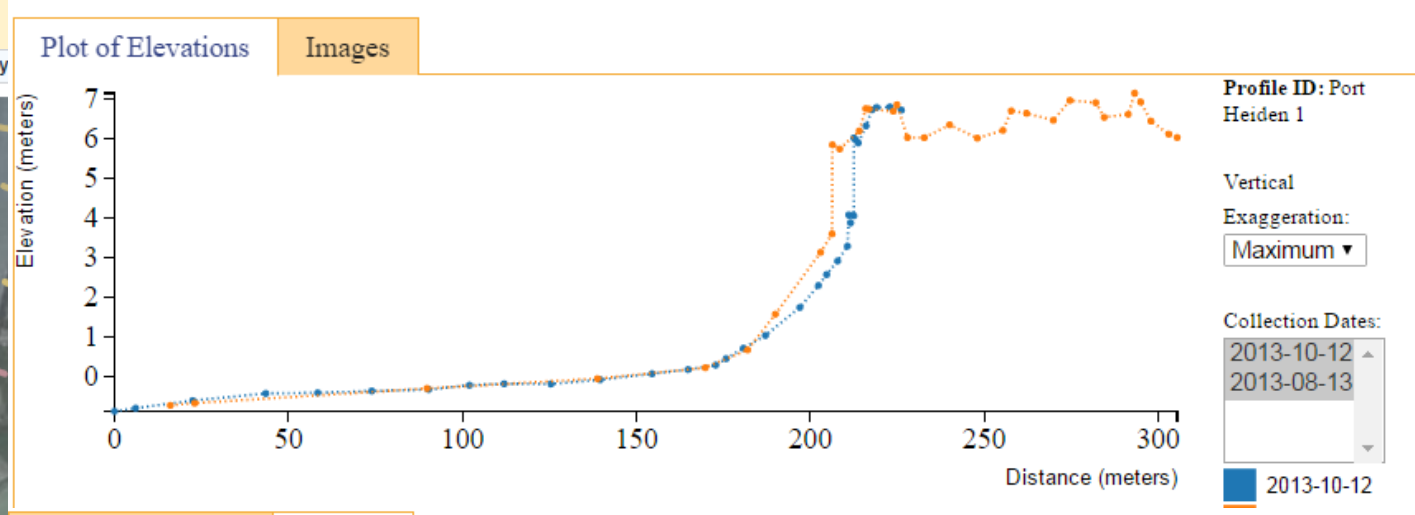
ALASKA COASTAL PROFILE TOOL

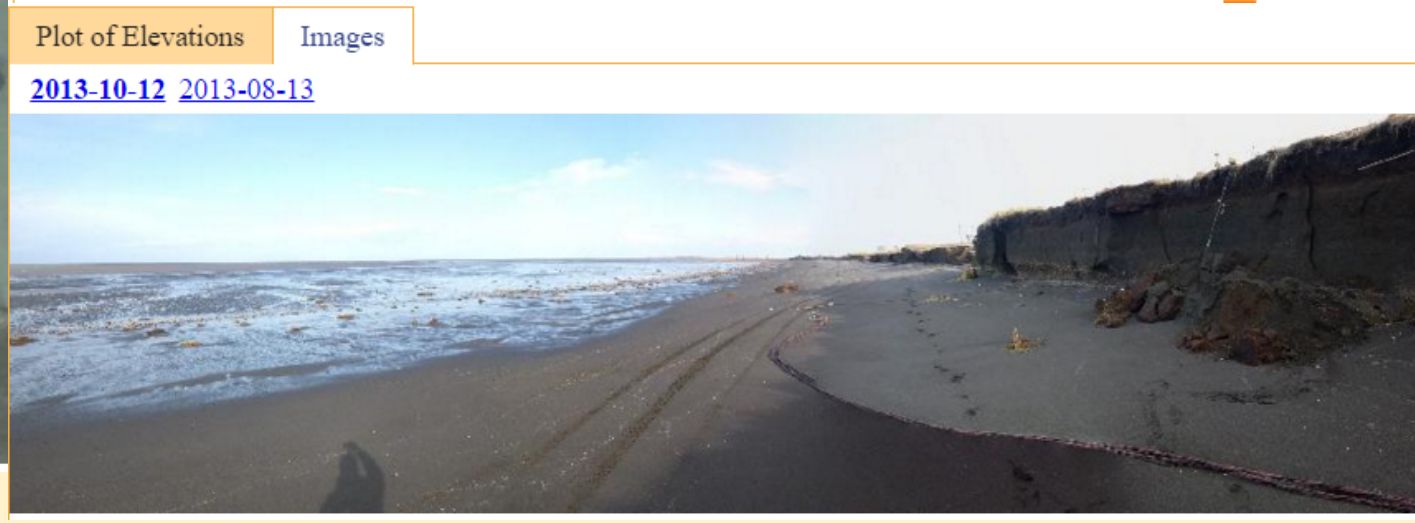




ALASKA COASTAL PROFILE TOOL







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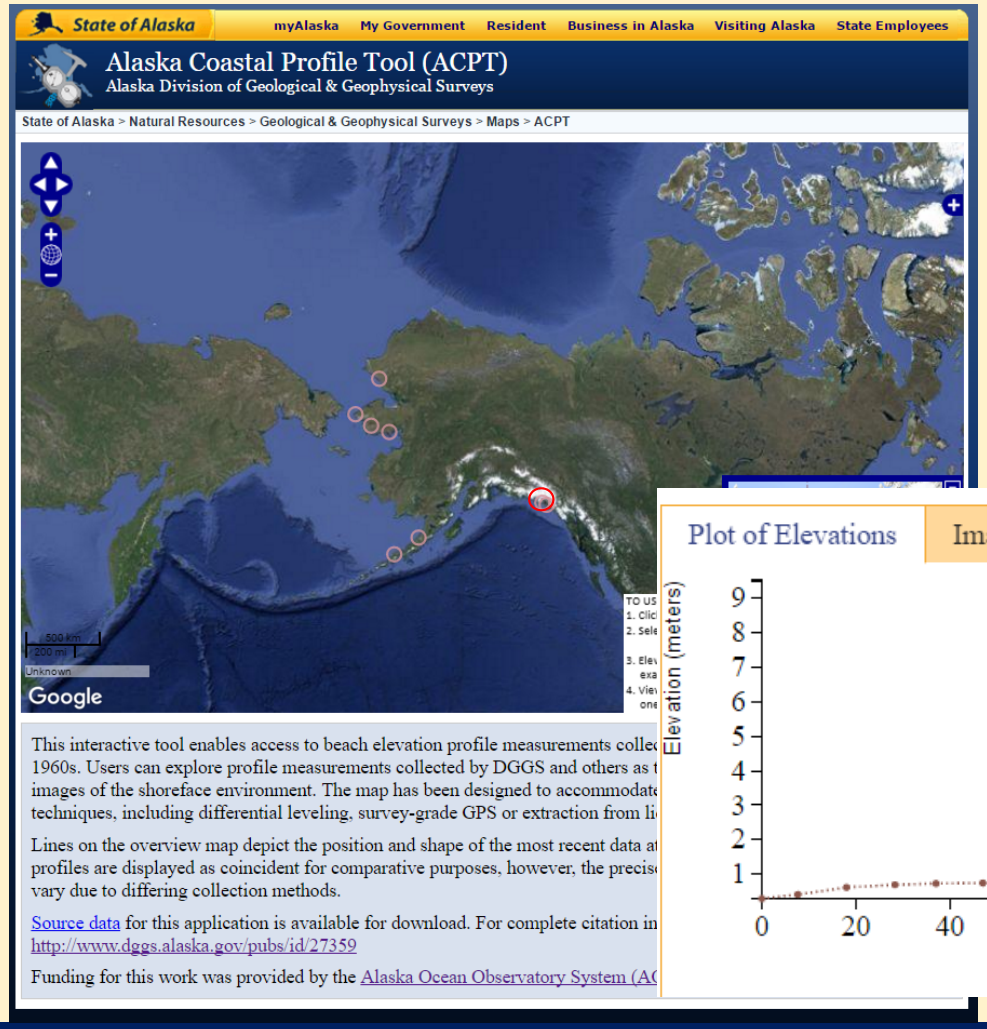
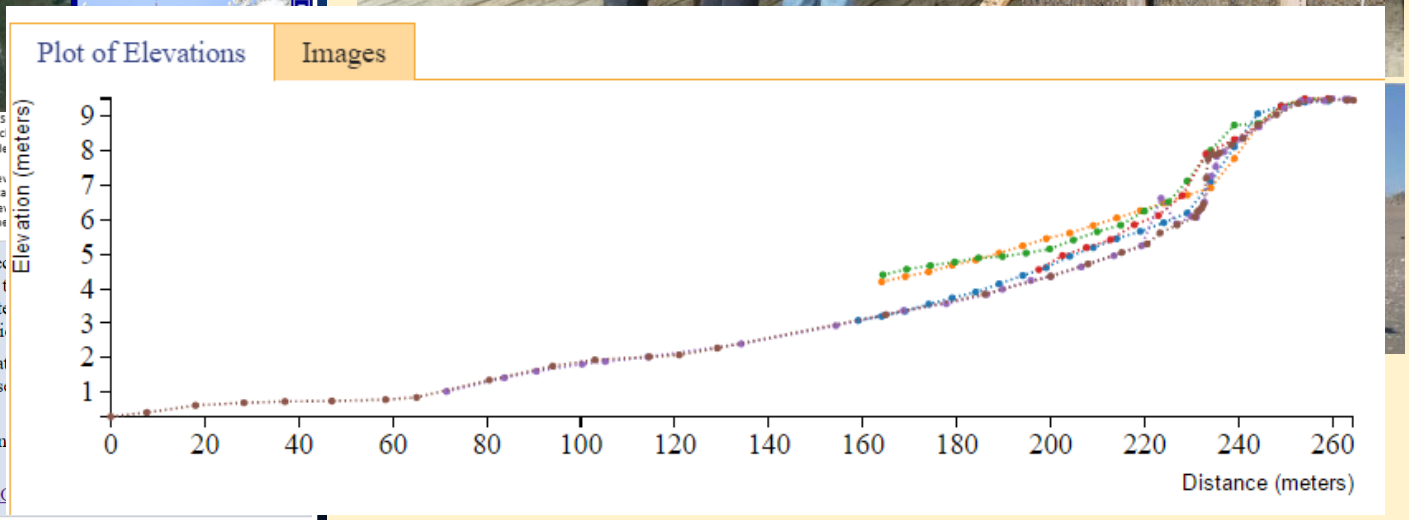
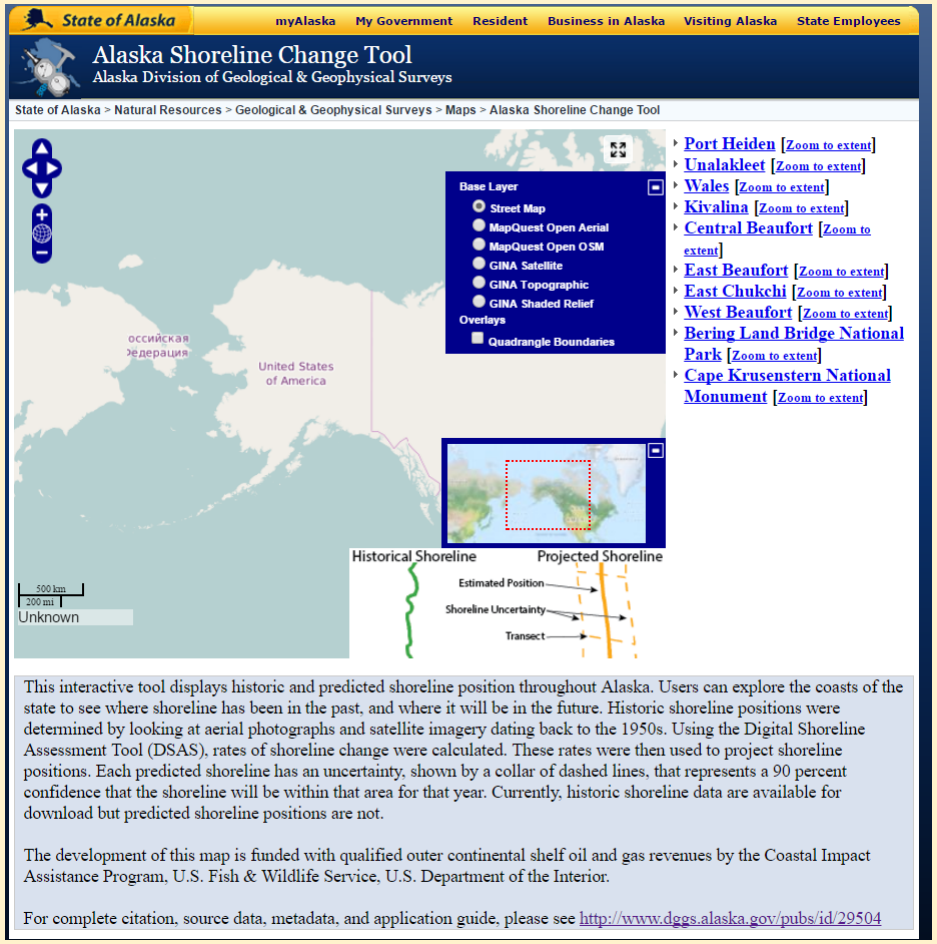
ALASKA COASTAL PROFILE TOOL

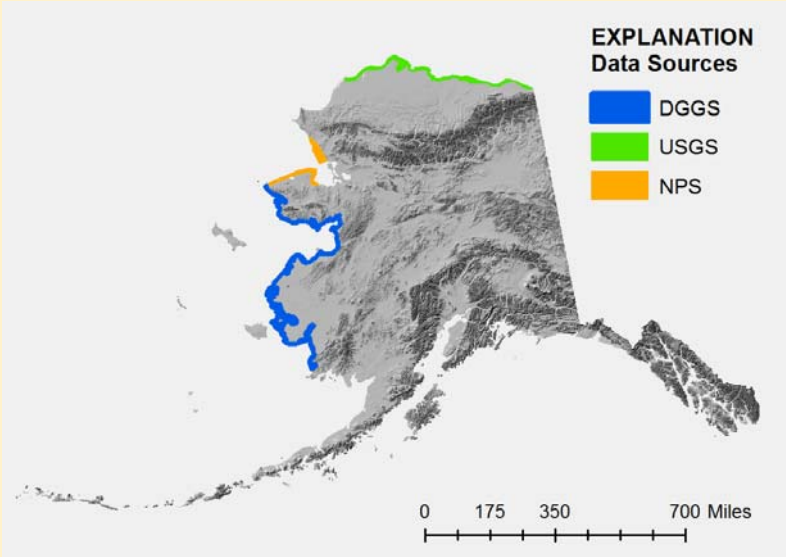




ALASKA SHORELINE CHANGE TOOL—FUTURE EFFORTS



- Process historical data and make new collections
- Make projections available regionally and continuous along the coast



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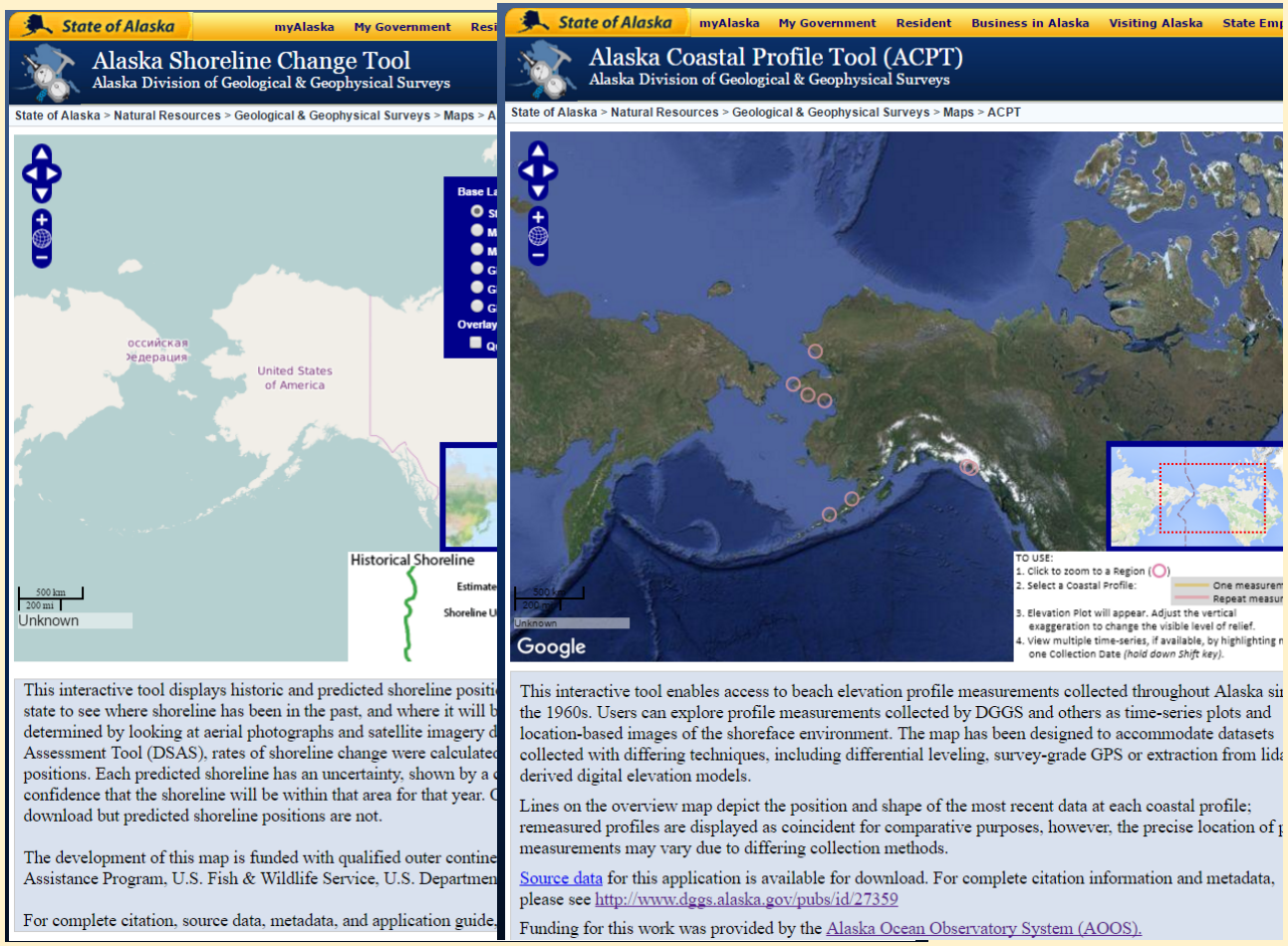

- Add baseline datasets to the tool
- Add post-storm datasets
- Establish more community-driven observation sites

CONTACT INFORMATION

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Alaska Ocean Observing System

Sea Grant Alaska

CIAP
Coastal Impact
Assistance Program

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TOOLS FOR FLOOD COMMUNICATION

FLOOD LANGUAGES

Scientist

"…… expect wave impact to reach the dune toe at 3.2 meters relative to the North American Vertical Datum of 1988"

"…… storm surge is expected to reach 2 meters above the mean high water elevation"

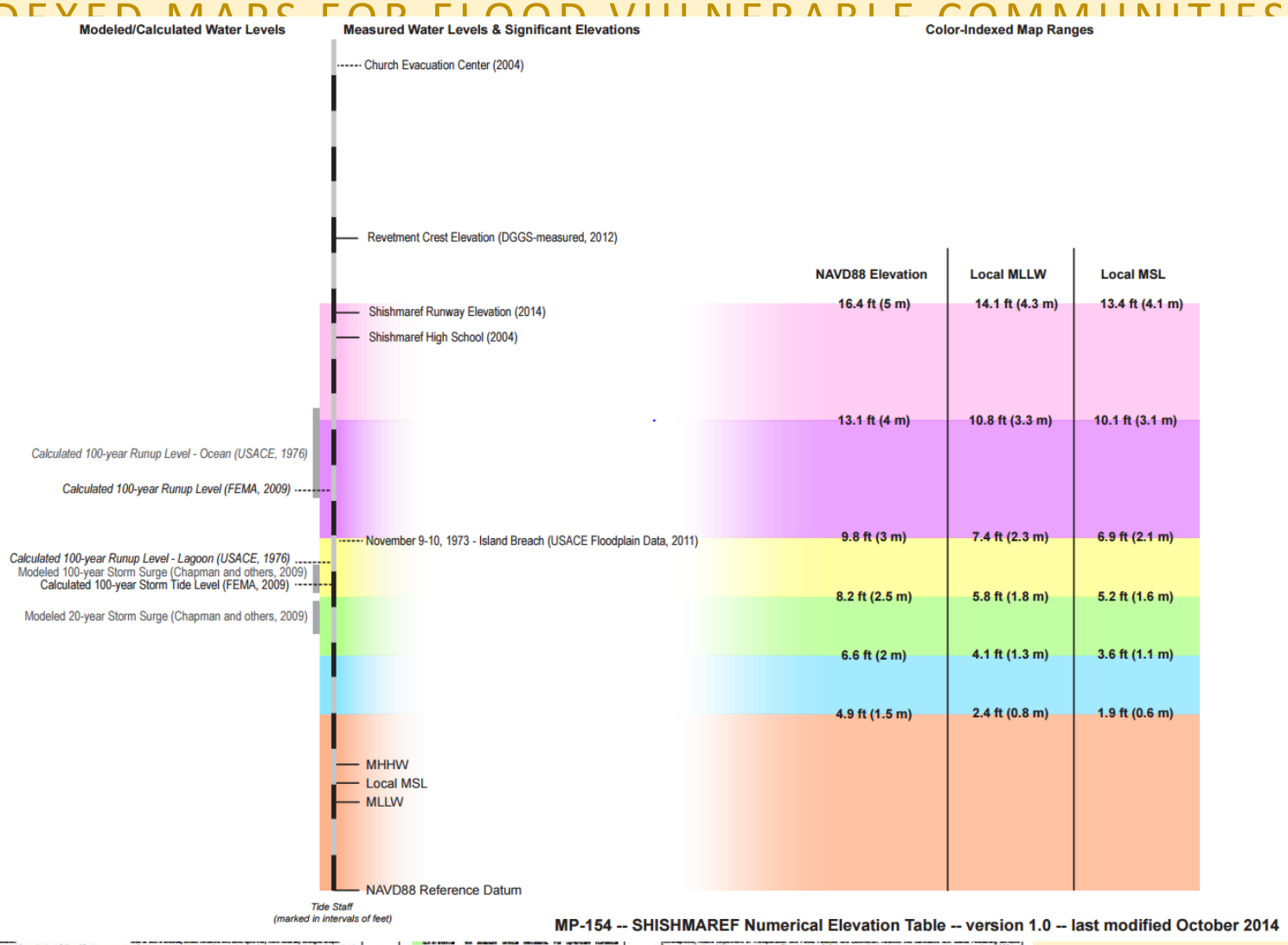
Computer Modeler

"…… will water reach my house?"

"…… expect beach erosion and flooding similar to a 50 year event"

Weather Forecaster

COLOR-INDEXED MAPS FOR FLOOD VULNERABLE COMMUNITIES



FLOOD LANGUAGES

Scientist

"..... storm surge is expected to reach 2 meters above the mean high water elevation"

"..... expect wave impact to reach the dune toe at 3.2 meters relative to the North American Vertical Datum of 1988"

mputer
deler

"Water reached the orange areas during the last storm"

"..... expect beach erosion and flooding similar to a 50 year event"

Weather Forecaster

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