COASTAL DATA EXCHANGE

PACIOOS

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PacIOOS
Data Supply Discussion

- How data were developed
- Strengths and weaknesses
  *Confidence interval (accuracy versus uncertainty). How do you treat data uncertainty?*
- Planners use my data for...
- Planners could also use my data for...
- Differences in how counties/ agencies have used it
- Other ways they could use it
- Ways my data should not be used
- How to access my data
- The future of my dataset
  *(e.g. this is the data you could use for x projection, what my data will look like in 10 years)*
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  Confidence interval (accuracy versus uncertainty). How do you treat data uncertainty?

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How data were developed

- Data are collected via a variety of platforms, including *in-situ* (buoy, fixed-pier) and remote (HFR) sites, as well as “generated” synthetically by numerical model (circulation, wave, atmosphere, tide)
- Data products are developed based on user needs and/or requirements
Strengths and weaknesses

• Good:
  – Most data and all models provide data in real-time
  – Pacific-wide distribution of observing platforms
  – Multi-variate measurements
  – Efficient delivery mechanism

• Not-so-good:
  – Most time-series start with the program, *i.e.*, are three years or less
  – Point measurements are in relatively few, discrete points, while gridded data are coarse
Data Supply Discussion (cont’d)

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How to access data

- All data available via OPeNDAP and OGC standards (WMS, WFS, WCS) [transport]
- All data available via web-based browse tools (LAS, ERDDAP, GeoServer) [browse]
- Most data available via web-based view tools (Voyager, Explorer) [discovery]

http://pacioos.org

Additional value-added component is development of user-specified tools
http://pacioos.org/shorelinechangetool

- Local planning agencies requested a tool for estimating property set-backs using historical and future projections of sea-level change
- UH/SOEST provided scientific analysis (on-shore transects, historical coastlines, *etc.*)
- NOAA (CSP), State (Coordinator for the National Flood Insurance Program within DLNR) and State Planning Departments provided support and layers
- PacIOOS provided technical support, tool development and infrastructure
Map Control:
- Zoom in/out
- Select transect or parcel
- Show legend
- Show search

Initial start: Overview, disclaimer, data information

Display legend and enable features

http://pacioos.org/shorelinechangetool
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Search

Select a value to search on Address (property address), TMK (box map key), or Transect ID (shoreline measurement location identifier) or you can click on 'location' and choose a region to zoom to.

Input Address as number, street name, street type and city (e.g. 2925 Correa Rd Honolulu)

Input TMK using the 9 digit number excluding the first zero (0), if present, and without dashes (e.g. 580059085).

Input Transect ID in the form of 123KY. These IDs are the transect numbers found in USGS Open-File Report 2011-1009 combined with letters reflecting the island (K-Kauai, M-Maui, O-Oahu) and what shore the transect is located (E-East, N-North, W-West, S-South, K-Kihei (Special Case for Maui)) e.g., 021ON for transect 021 on Oahu, North shore. NOTE: Transect ID applies only to Kauai, Maui and Oahu.

Press ‘Enter’ to start the search.
Search by address, TMK (property ID), or transect (UH Coastal Geology Group)

Help/more information

http://pacioos.org/shorelinechangetool
Parcel Details:
- TMK
- DFIRM
- Transect ID
- Shoreline change (ft/yr)
- Erosion Hazard

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Compute Setback:
Change rate x years - buffer

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The future of (my) (dataset)

- Shoreline tool in “beta release”, we welcome any/all feedback
- Ditto all PacIOOS data and data-services

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Planners use my data for

- County Plans
- General Plans
- Conservation District Use Permits
- Setbacks
- Shoreline Certification
- Shoreline Permits
- Building Permits
- Special Area Management Permits
- Flood Zones
Planners could also use my data for

- County Plans
- General Plans
- Conservation District Use Permits
- Setbacks
- Shoreline Certification
- Shoreline Permits
- Building Permits
- Special Area Management Permits
- Flood Zones