

Coastal Data Collection in the Sunset Beach Region

Presented by Robert Walker, PE Coastal Engineer

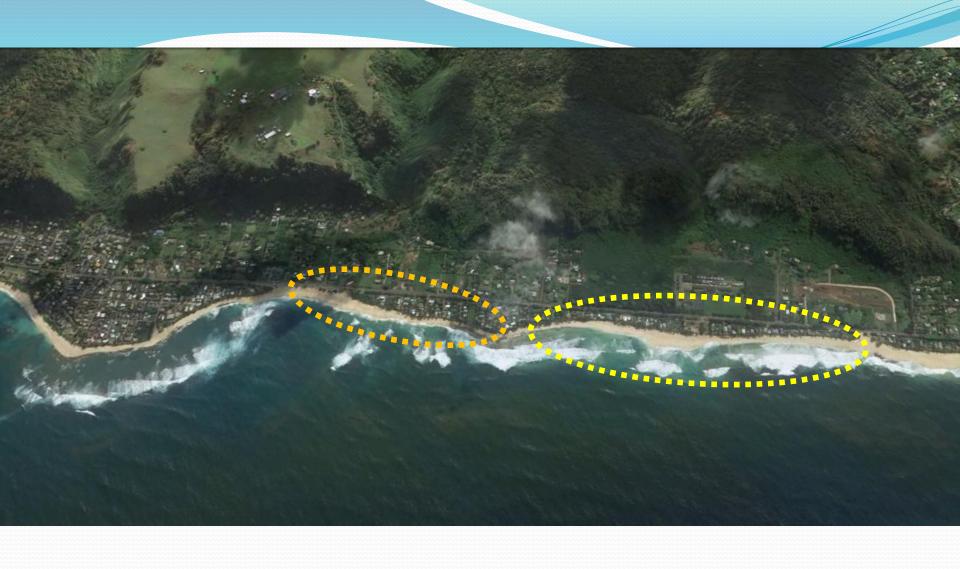




- Background
- Data collection:
 - Beach profile surveys
 - Wave and current measurements
 - Channel bottom elevation
 - Current, Temperature, and Density
 - Personal interviews
- Next steps







Beach Profile Locations



Setup















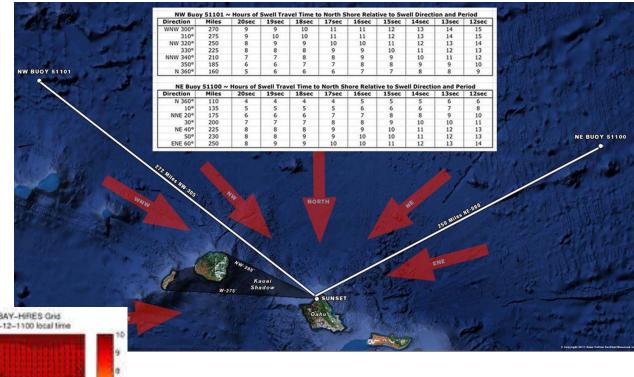
Visual Surf Observations (Pat Caldwell)

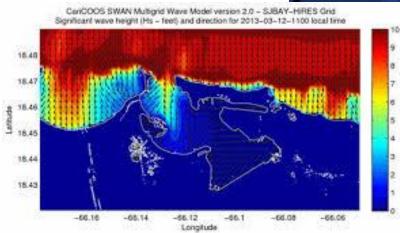
- Larry Godderd 1968-1987
- Pat Caldwell 1987-present

```
Format:
yyyy mm dd nshor wshor almo dh winw wspd wdir nsd ssd
yyyy: year, mm: month, dd: day
nshor (mostly Sunset until > 15 Hawaii scale (Hs), then
        Waimea reports are used)
wshor (Makaha)
almo (Ala Moana)
dh (Diamond Head)
winw (Windward Oahu (east side) index)
wspd (wind speed in beaufort for open waters)
wdir (wind direction, coded 1=N 2=NNE 3=NE, etc ... 16=NNW
     17:calm, 18:mixed)
nsd (north shore wave direction as above)
ssd (south shore direction)
```

Waves

- Buoys
- WIS
- Wavewatch





ADCP – Waves and Currents

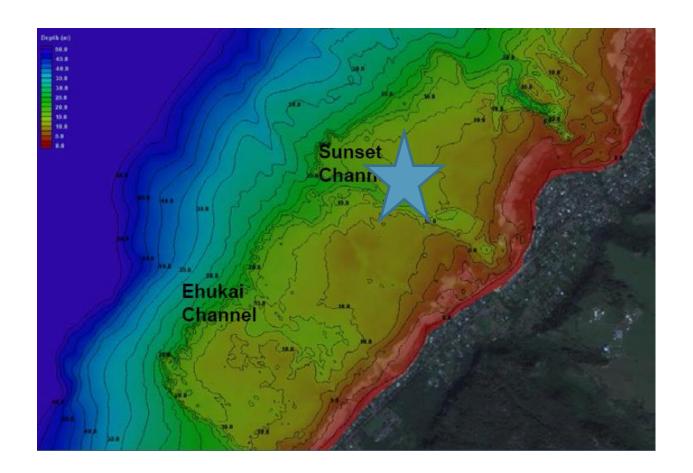


- Summer 2015
- Winter 2015/2016





Sedimeter

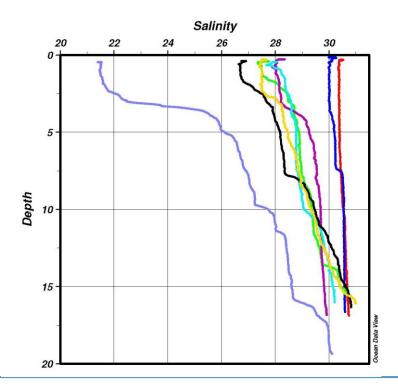




Citadel CTD



- Conductivity
- Temperature
- Depth





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Southern Maine Volunteer Beach Profile Monitoring Program

Volunteers Mapping the State of Maine's Beaches since 1999



Partners





- US Army Corps of Engineers
- Hawaii Department of Land and Natural Resources,
 Office of Conservation and Coastal Lands
- University of Hawaii (UH) Sea Grant
- UH Department of Geology & Geophysics
- UH Department of Geography
- UH Coastal Geology Group
- UH Department of Civil and Environmental Engineering
- City and County of Honolulu Ocean Safety & Lifeguard Services