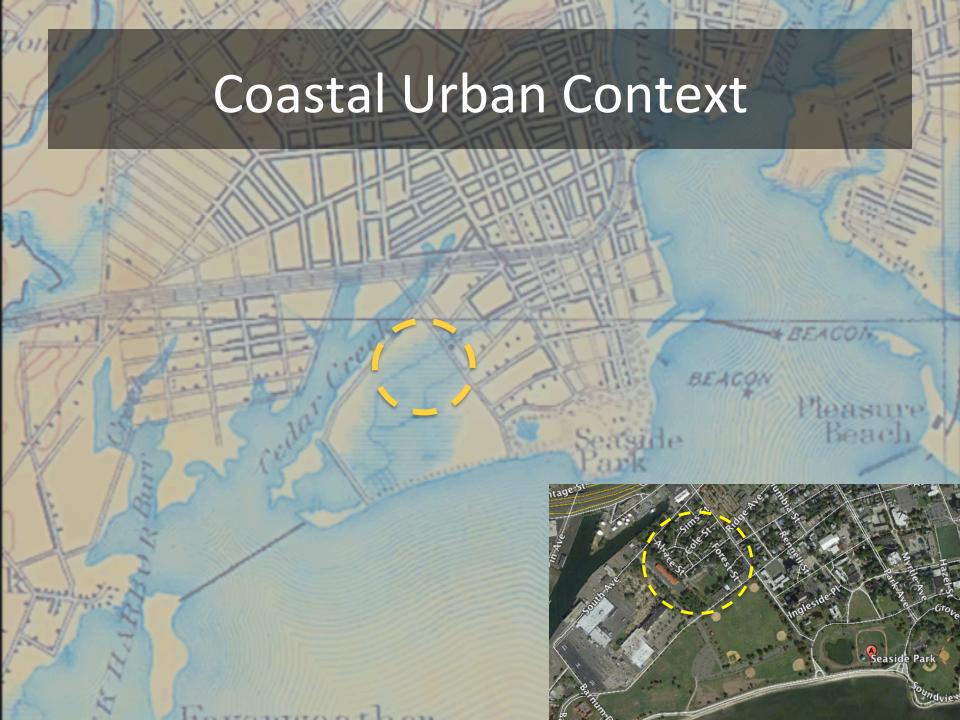
WATER BUDGETS OF COASTAL RAIN GARDENS

Selena Pang 2014-15 Hixon Fellow

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Research Goals

- (How) does GSI work in a coastal context?
 - Physically: water budget
 - Socially: additional benefits (see my report!)





Methods

- Treatments
- Soil and plant

Water budget:

INFLOW

+ PRECIPITATION

-EVAPOTRANSPIRATION

± GROUNDWATER

= CHANGE IN STORAGE

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Methods

- Treatments
- Soil and plant

Water budget:

INFLOW

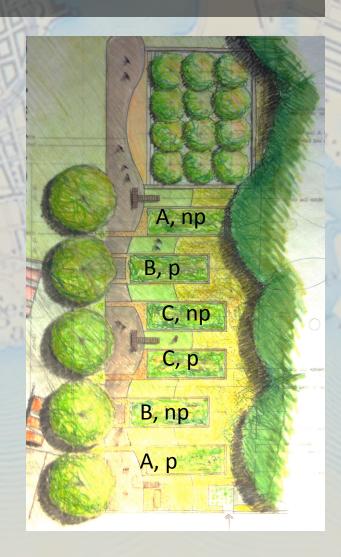
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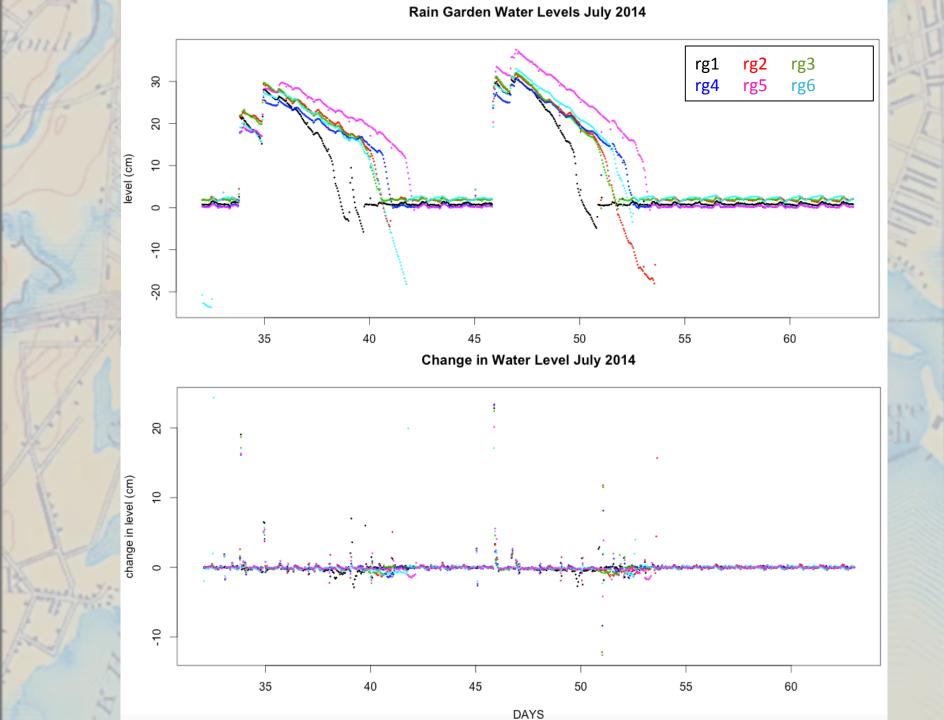
inventuring at home

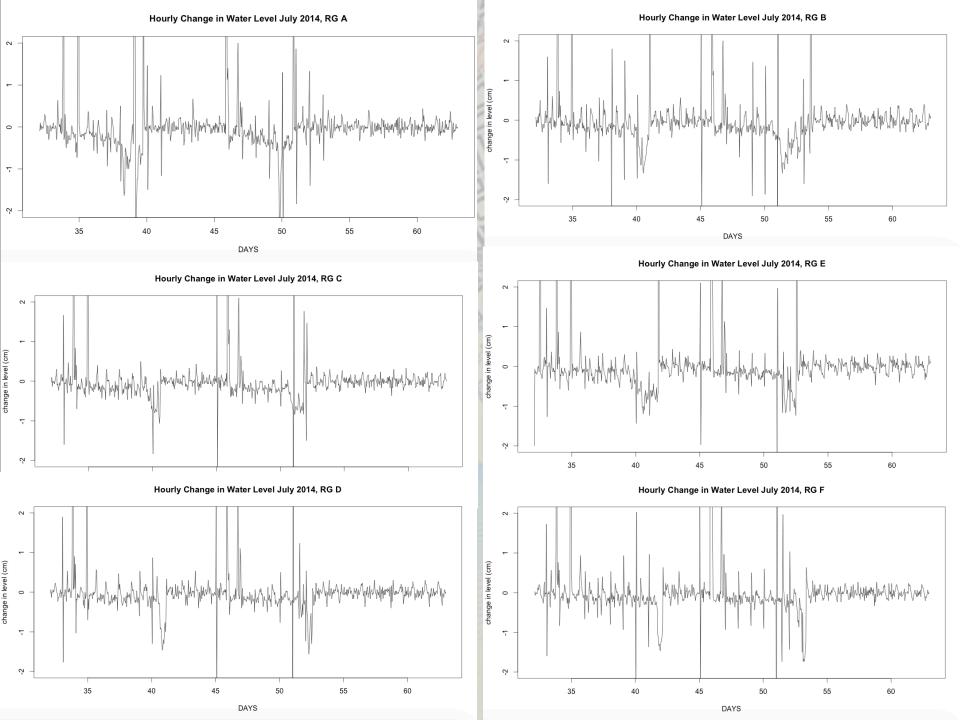


Results

- Pipe inlets
- Rain gauge
- Solar & climate
- Water level
- Control for elevation
- Tidal cycle
- Treatment effect
- July 2014
- Data collection completed June 2015

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Discussion

- Relative rain garden water levels appear consistent across rain events
- Control for elevation an important next step
 - Water budget
 - Infiltration rate
 - Statistical analysis
- Implications for coastal GSI design and resilience of coastal cities + communities

Thank you!

Hixon Center for Urban Ecology

- Gabe Benoit
- Alex Felson + UEDLAB

inventor at home

Seaside Village and City of Bridgeport