

Using Earth Observations to Inform the Valuation of Ecosystem Services that Support Coastal Resilience: Gulf Coast Workshops

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Gulf Coast workshops – linking earth observations and stakeholders to advance ecosystem service valuation

Objectives

- Identify the ecosystem service valuation methods that work best where stakeholder needs and available earth observations overlap
- Contribute to learning among coastal planners and resource managers about how earth observations could improve resiliency planning

Approach

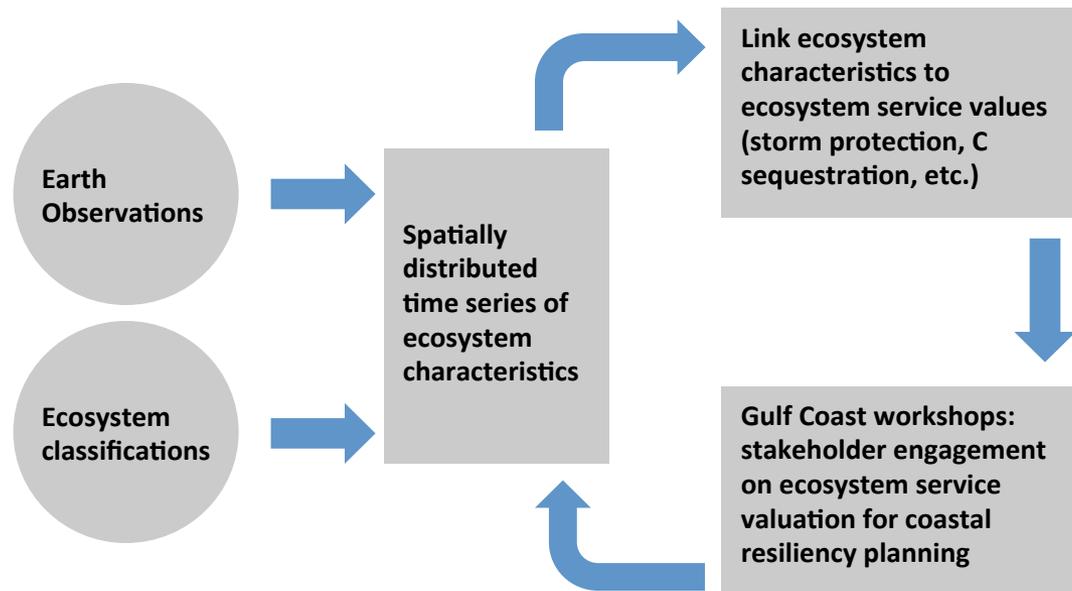
- Evaluate the ecosystem service valuation options for relevant services: regulating (flood control/storm protection, water quality, carbon sequestration), provisioning (water supply, food supply), and cultural (recreation and research/education)
- Assess suitability of earth observations and derived products to provide the information needed for valuation; adapt valuation methods where needed
- Learn from stakeholders (surveys, interviews, workshops) how their coastal resiliency planning could be improved by integrating ecosystem service valuation at a large scale

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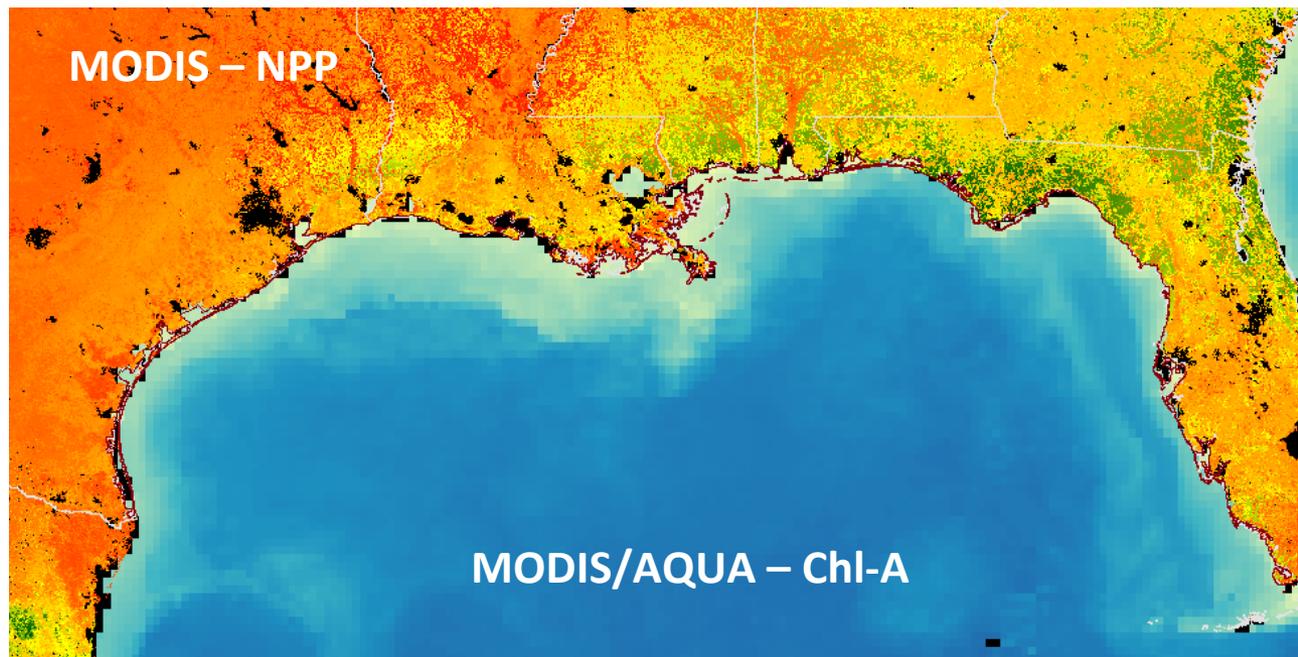
Key data sources... linking vegetation measures and ocean color to ecosystem type and properties

- MODIS: NDVI, NPP, LAI
- MODIS/AQUA Chlorophyll a, among others

Process...



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Key outcome... pathway from coastal planners and resource managers to earth observations and ecosystem valuation for improved coastal resiliency