Developing appropriate work flows to analyze intertidal community data

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Analytical Workflows 2019

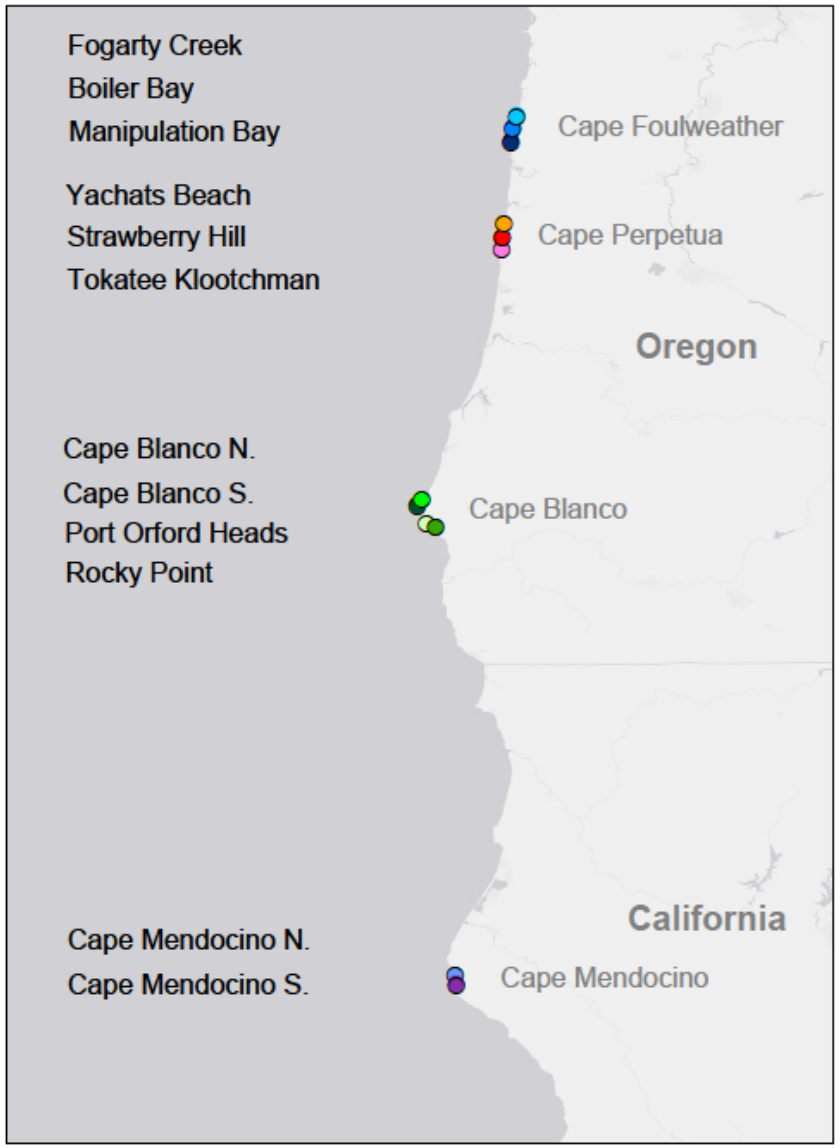
Currently 30 projects at most sites along the Oregon and California coasts

Collaborating between 3 universities

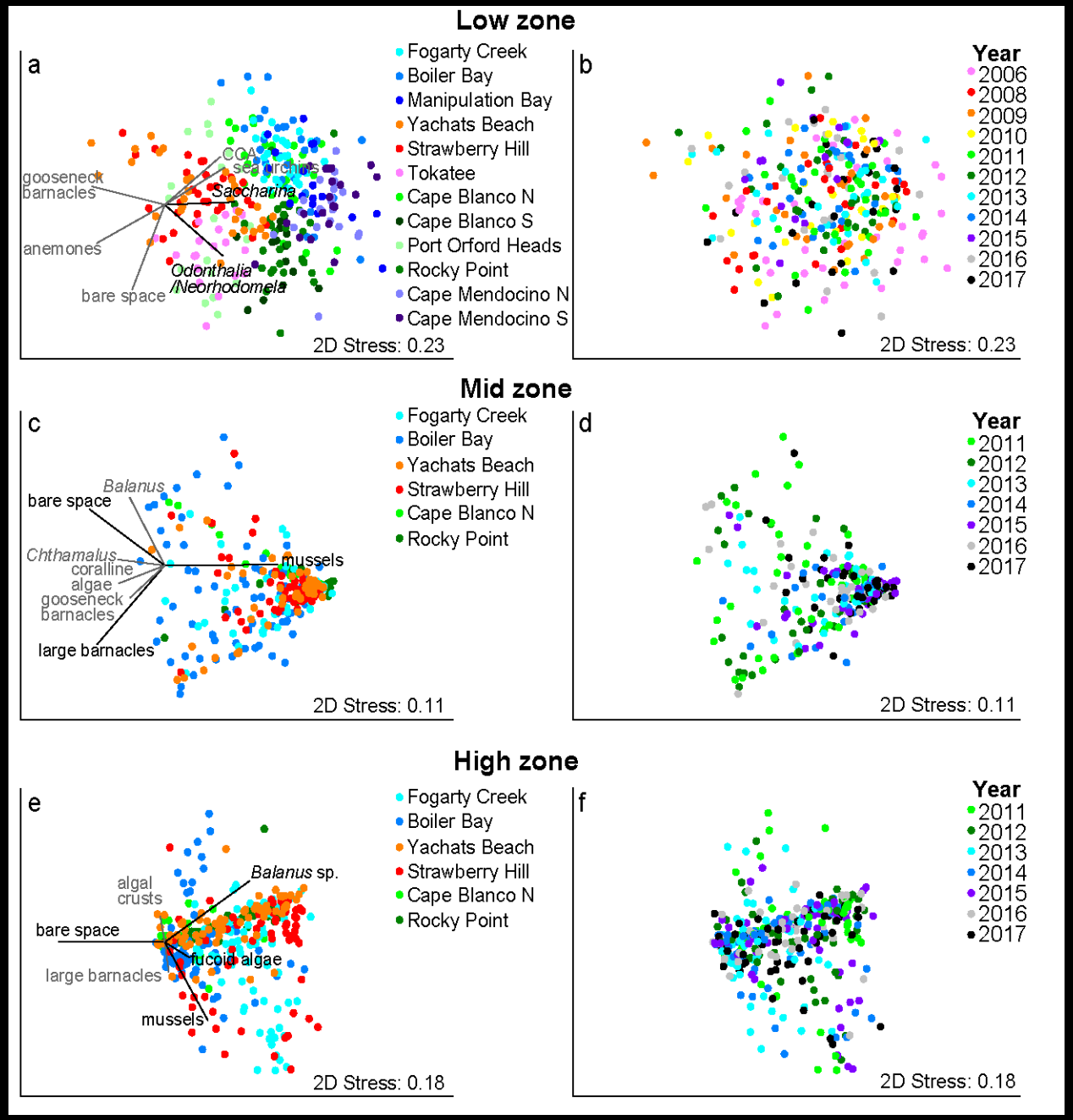
Using 3 project management programs, 2 servers, and many data analysis tools to keep track of our work flow and data.

Our lab is typically interested in how intertidal communities are changing on a spatial and temporal scale.

Community survey data as a case study.



Menge Lab Oregon and Nor Cal Sites



METHODS:

30 haphazard quadrats placed in the low intertidal

10 quadrats placed along fixed transect lines in the mid and high zones

QUESTION:

What species are driving these differences? How is that changing over time?

Current Data Visualization

Using PRIMER with PERMANOVA+

Potential Approaches

- Build a flexible model that is more forgiving with mistakes
- Investigate alternate statistical packages that may be more useful for visualizing community data
- Streamline project management between collaborators and reduce number of programs used to track work flow.

End Result (Hopefully!)

- A well constructed work flow of data management and organization, with clear ideas of how to analyze and present each project.
- Flexible work flows that work for multiple projects, and many collaborators
- Learning about and implementing Best-Practices in project management.