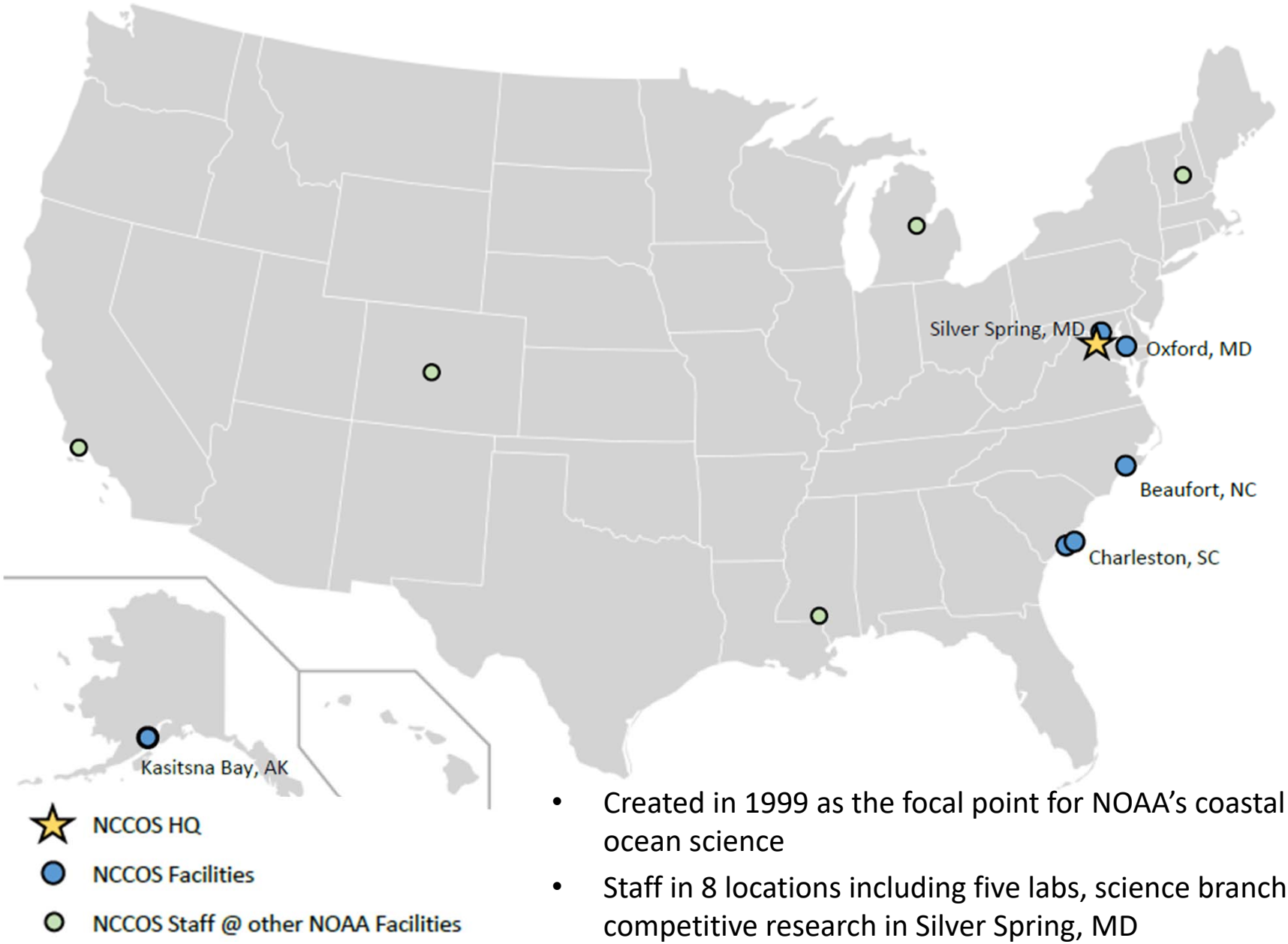
National Centers for Coastal Ocean Science

Delivering ecosystem science solutions

- *for stewardship of the nation's ocean and coastal resources*
- *in direct support of NOS priorities, offices and customers*
- *to sustain thriving coastal communities and economies*

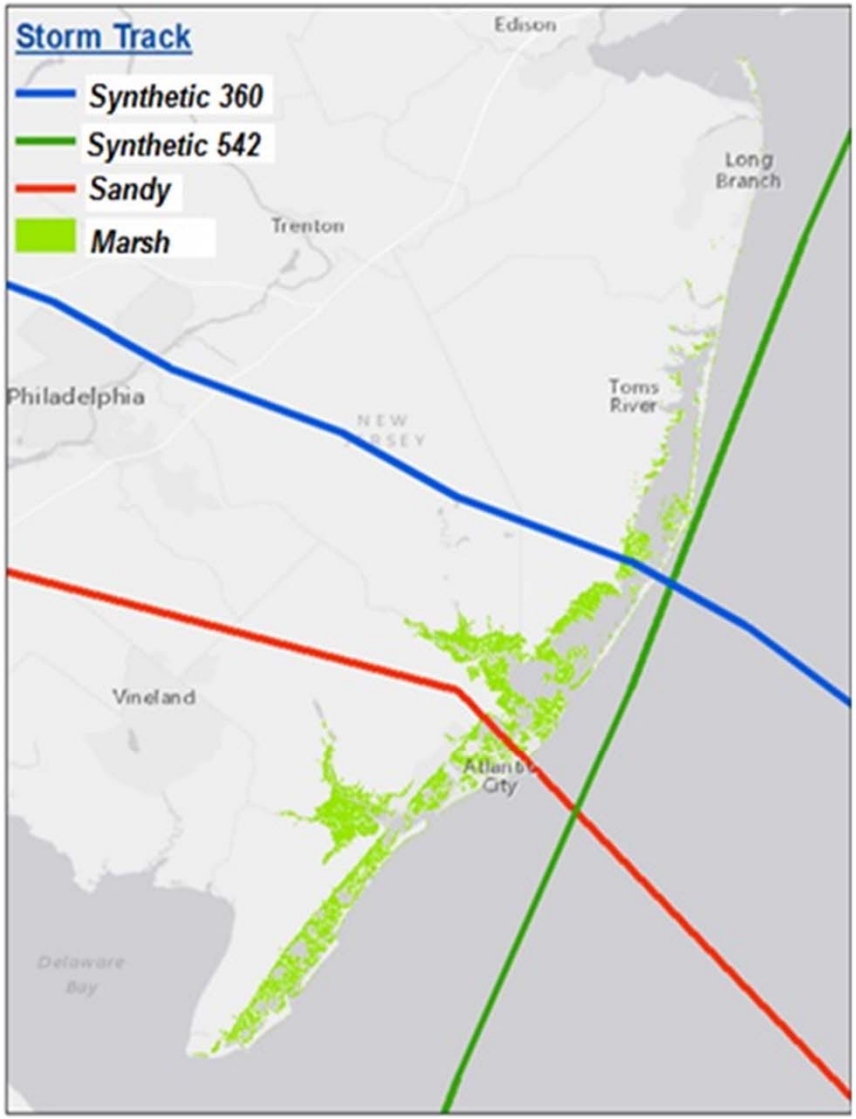


- Created in 1999 as the focal point for NOAA's coastal ocean science
- Staff in 8 locations including five labs, science branches & competitive research in Silver Spring, MD*

Ecosystem assessment of restoration

- Collaboration with USACE on Mordecai Island, NJ.
- Evaluating the impacts of sediment placement on the long-term resilience of Mordecai Island and
- Quantifying project impacts on flora and fauna

Valuing natural infrastructure



Sediment Management and NNBF

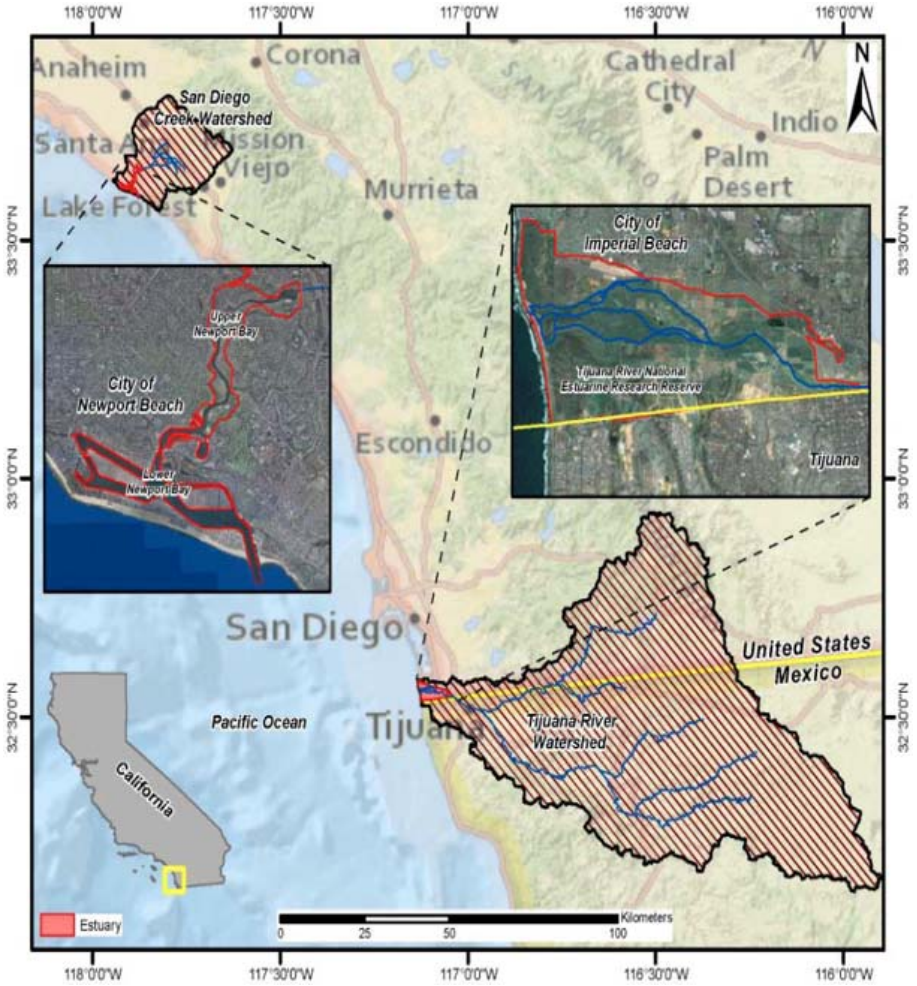
Effects of varying scenarios of sediment management

Newport Beach

- Urban beach community with significant watershed infrastructure for sediment management

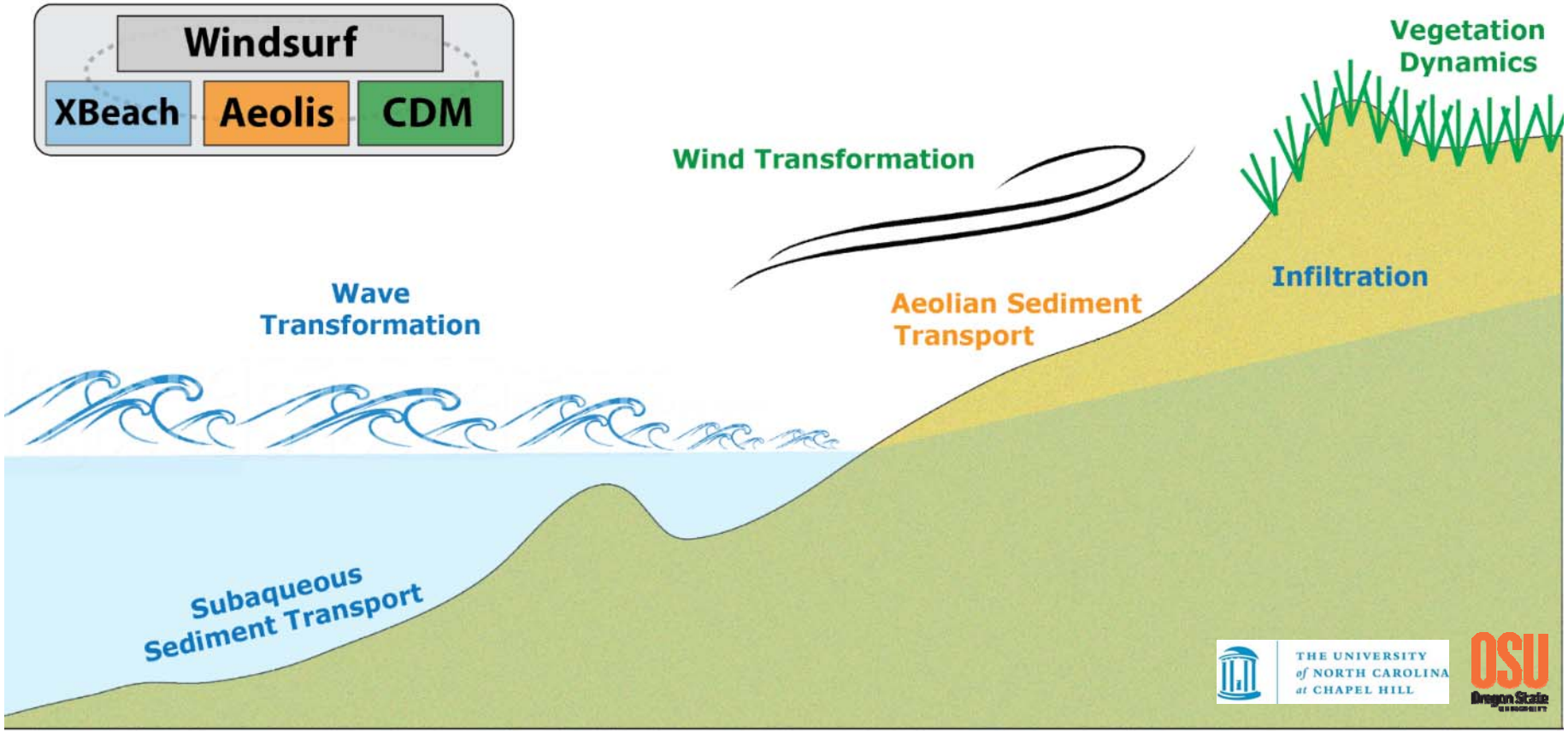
Tijuana River Valley

- Rural community with historical high flood risk
- Rapidly growing urban community (MX)



Dune recovery after storms

Open access, integrated modeling tool



Harmful algal blooms

Comprehensive research portfolio to address coastal HABs

- Technology and detection development
- Demonstration and operational forecasts
- Competitive research
- Control and mitigation
- Event response

Additional Information

David.Kidwell@noaa.gov
coastalscience.noaa.gov