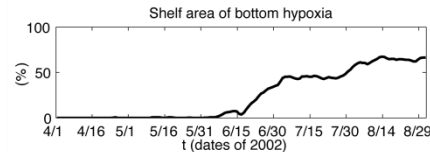


Oxygen On The Oregon Shelf

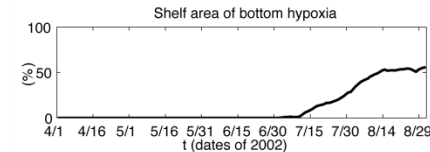


A simple ecosystem and oxygen model was coupled to a three-dimensional circulation model to assess the impact of the spring oxygen conditions on the severity and spatial extent of summer hypoxia.

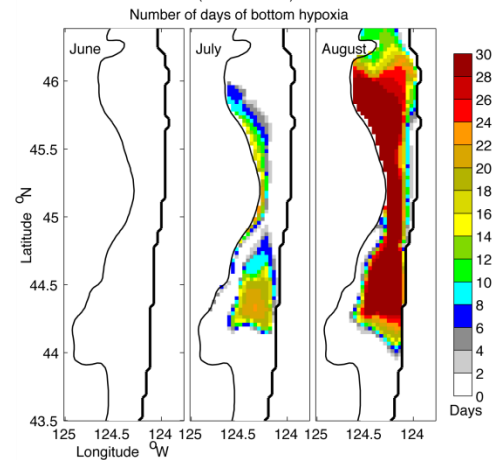
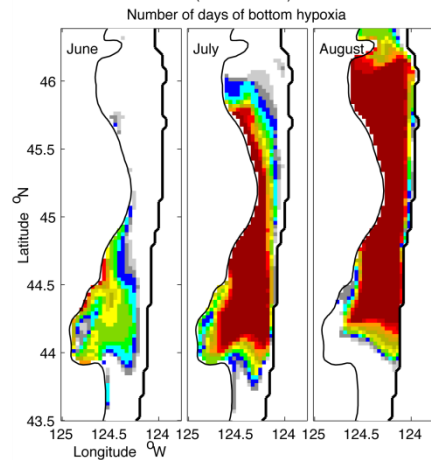
spring in situ
2002 initial
conditions



spring in situ
climatological
initial conditions



Shown: Effect of the spring conditions on the number of days and shelf area with bottom hypoxia in 2002.



Numerical modeling using climatological spring oxygen concentrations and observations from the specific years has helped to determine the role of the spring offshore conditions. Offshore *in situ* or large scale model oxygen data are necessary to predict summer hypoxia on the Oregon shelf.