

# **SECOORA:** *Ecological Forecasting*

Moderator:  
Rob Condon

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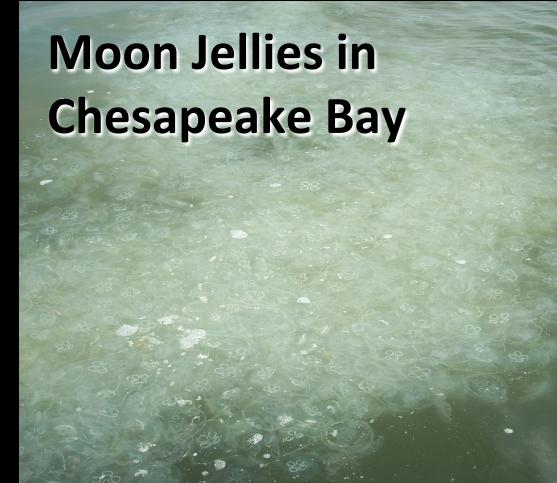
@mnemiopsis



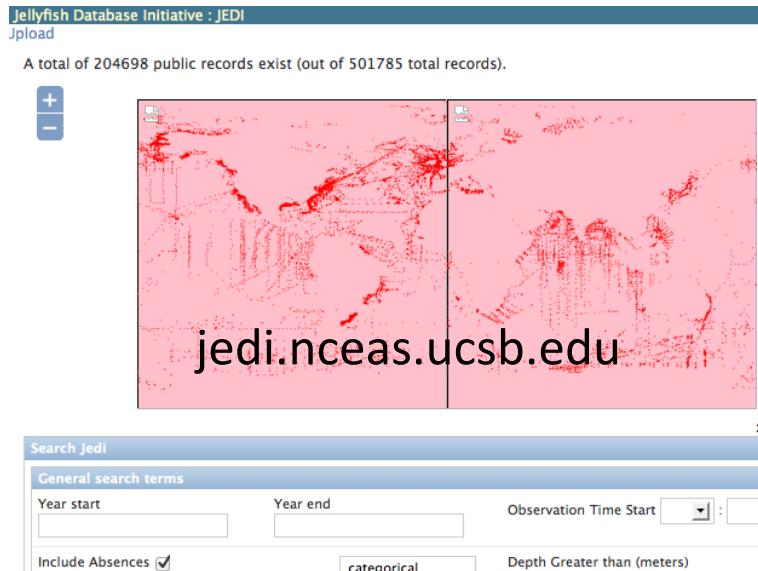
# Ecological Forecasting Panel

- Ruoying He
  - NCSU & SECOORA PI
- Allison Allen
  - NOAA Ecological Forecasting Roadmap Portfolio Manager
- Brad Gane
  - Ecological Services Section Chief, GA DNR
- 15 mins questions

# Global Increase in Jellyfish?

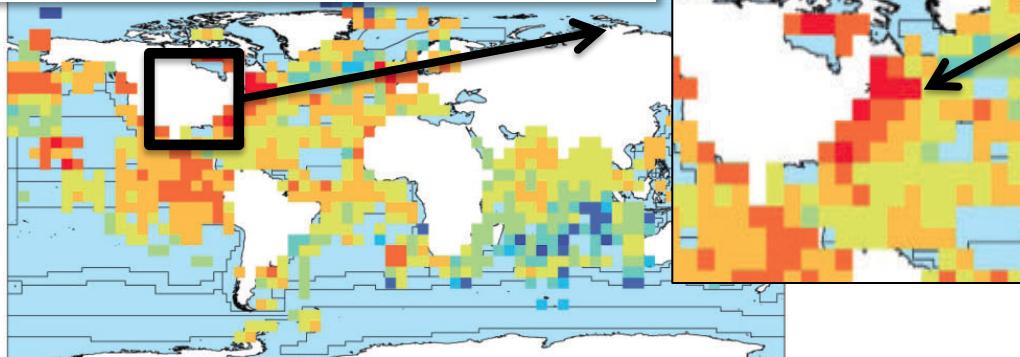


# Jellyfish Database Initiative (JeDI)



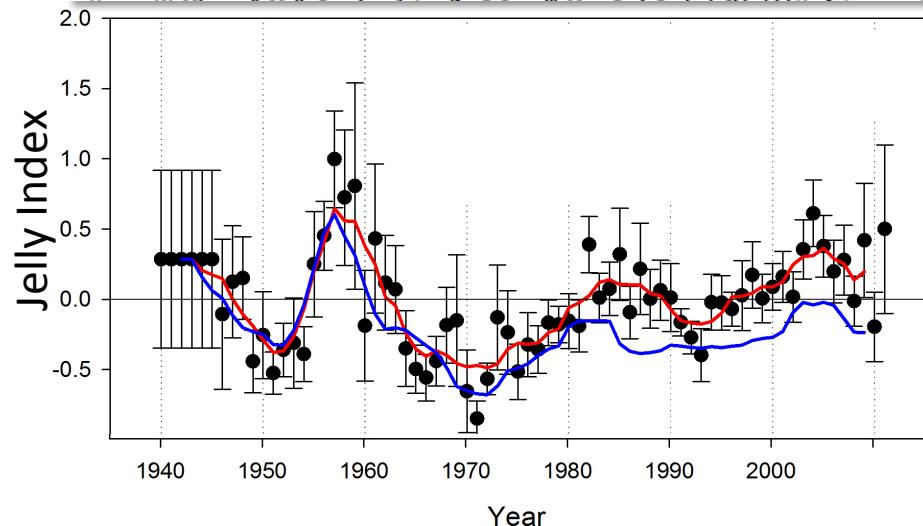
Gelatinous zooplankton biomass in the global oceans: geographic variation and environmental drivers

Cathy H. Lucas<sup>1\*</sup>, Daniel O. B. Jones<sup>1</sup>, Catherine J. Hollyhead<sup>1,2</sup>,  
Robert H. Condon<sup>3</sup>, Carlos M. Duarte<sup>4,5,6</sup>, William M. Graham<sup>7</sup>,



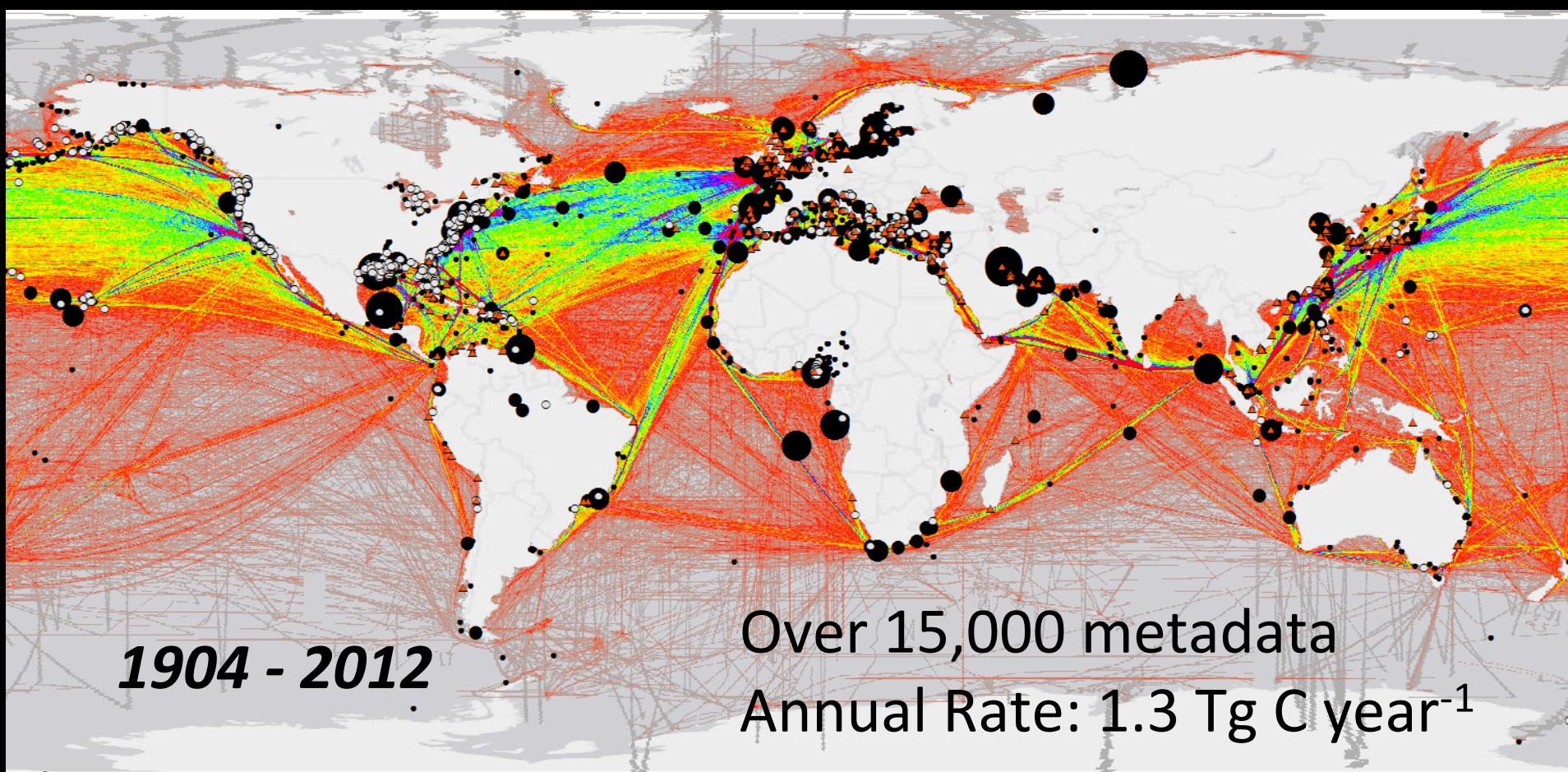
Recurrent jellyfish blooms are a consequence of global oscillations

Robert H. Condon<sup>a,1</sup>, Carlos M. Duarte<sup>b,c</sup>, Kylie A. Pitt<sup>d</sup>, Kelly L. Robinson<sup>a,e</sup>, Cathy H. Lucas<sup>f</sup>, Kelly R. Sutherland<sup>a,f</sup>, Michael J. Behrenfeld<sup>a,f</sup>, Daniel O. B. Jones<sup>a,f</sup>, William M. Graham<sup>g</sup>, and Catherine J. Hollyhead<sup>a,f</sup>



High Biomass in SE USA  
Predictions?  
Hydrodynamic?  
Fisheries?  
- Nth Pacific Ecopath

# Black Tides: Global Oil Spills



(Condon et al., In Prep)

# But What Do We Know Now?

