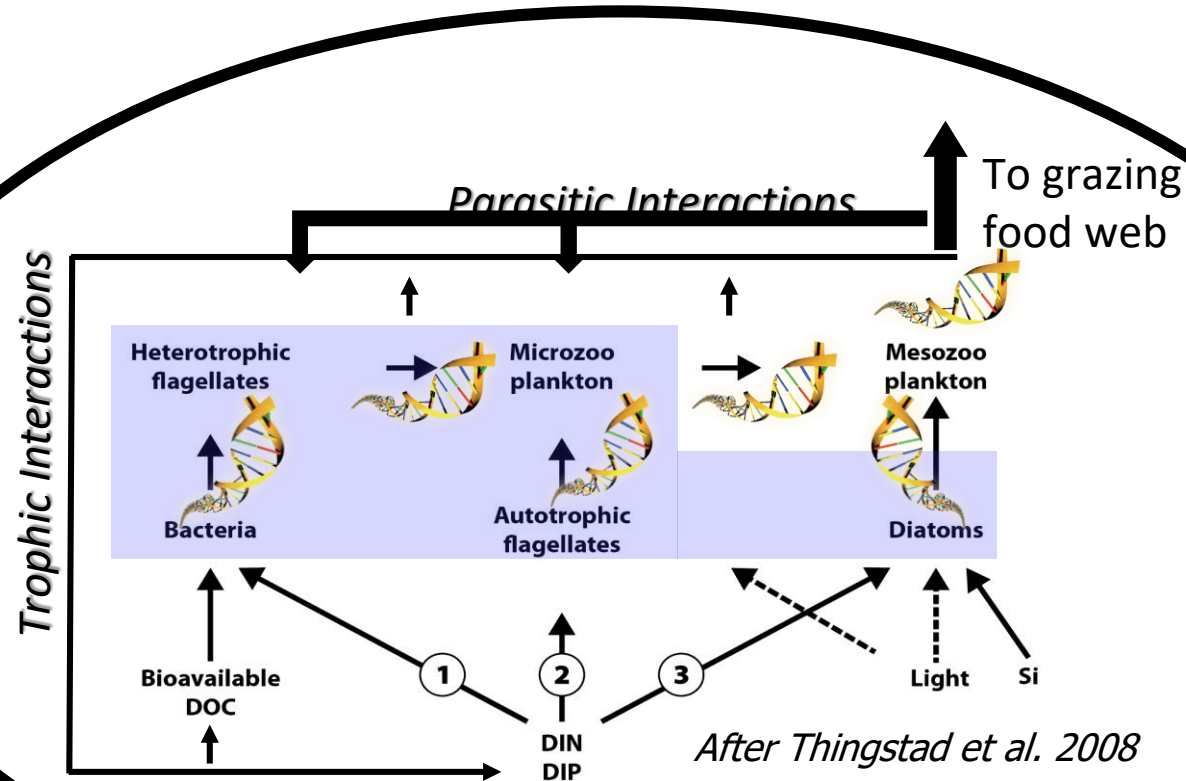


Frischer Research Group – Microbial Ecology

Interactions of Microbial & Macrobial Systems – Enabled by Molecular Tools
Biogeochemical Processes & Nutrient Cycling - Trophic & Parasitic Interactions

Invasive
Species

Disease



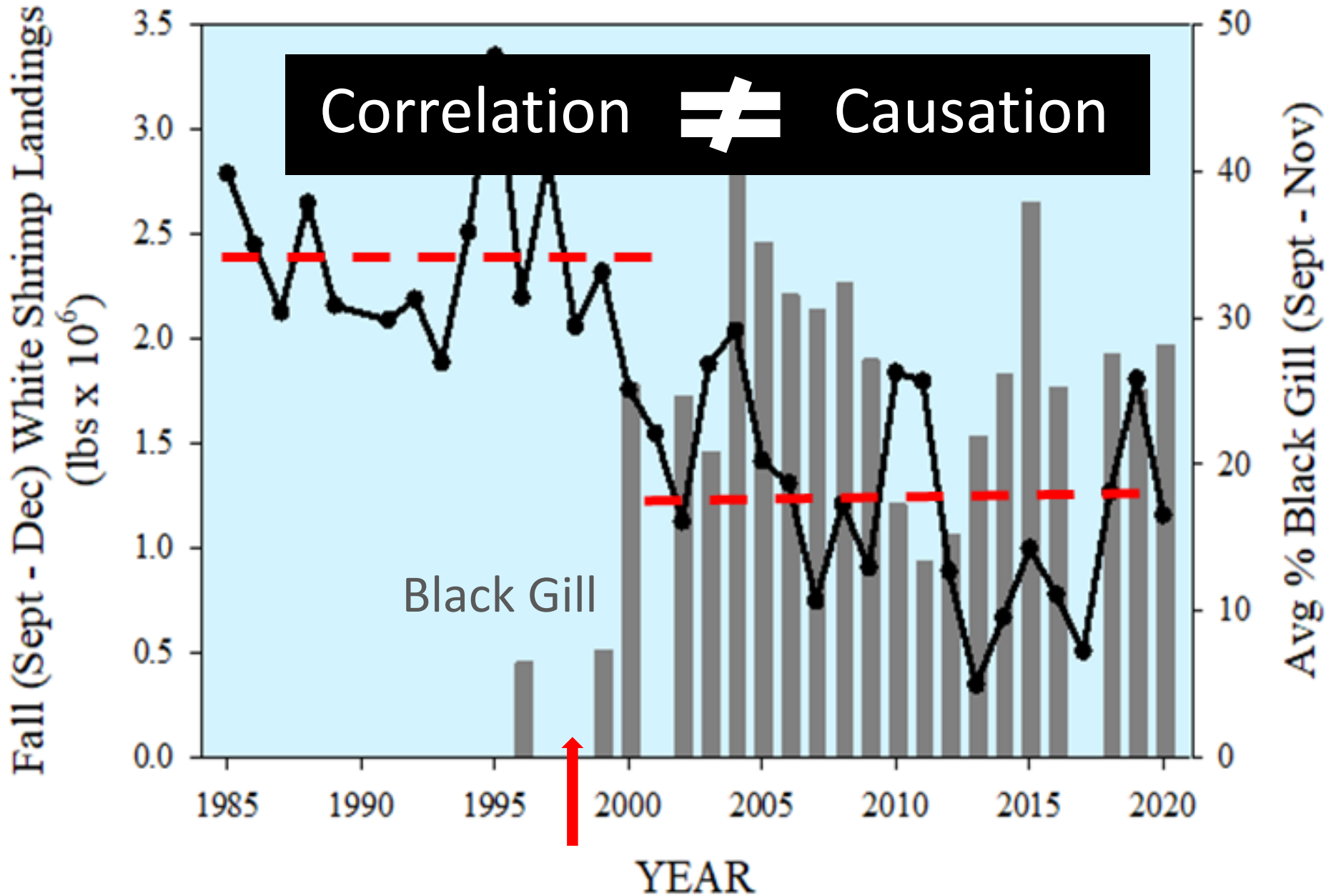
Anthropogenic
Stressors

Climate & Physics
frischer@uga.edu

Shrimp Black Gill



Funding from 2014 - 2022



Lessons Learned

- Listen to Shrimpers & other stakeholders
- Shrimp Black Gill disease caused by a novel parasitic ciliate (*H. lynni*)
- Climate Triggered – Warmer Winters
- Not Harmful to Humans (does not affect taste either)
- Black Gill degrades shrimp health, but not necessarily deadly
- The decline in Georgia's shrimp fishery most likely due to interactive effects of climate and socio economic factors (a perfect storm)
- We should anticipate unknown emergent diseases

The Future of Georgia's Shrimp Fishery?

“Shrimp won't go extinct but the industry might if we're not careful”

Pat Geer

*Former Chief of Marine Fisheries
Georgia DNR, Coastal Resources Division*

