



# PREDICTION & MODELING

HABSOS 2019 Review

# WHAT WE THINK WE KNOW

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- **When a bloom starts and peaks using satellite data.**



# WHAT WE DON'T KNOW

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- **Picocyanoplankton can have phycocyanin, however there is little known about the toxicity. Does it matter because it's so small?**



# RESEARCH PRIORITIES - CYANOHABS

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1. Collect regular nutrient (external and internal) load data into Lake Okeechobee

2a. Improve blue-green algae prediction

2b. Develop good physical models of water column structure and circulation

3a. Evaluate the accuracy of satellite imagery compared to discrete and *in situ* sampling

3b. Create a better explanation of satellite imagery for the lay audience



# RESEARCH PRIORITIES –HABS IN GENERAL

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1. Develop models that can separate point source and non-point sources of pollution
2. Examine the relationships between water quality and bloom predictions

