



# 2020 Covid-19 Restrictions

**NC STATE  
UNIVERSITY**

## NC State CoVid Restrictions

- **March 18: Notification of NCSU closure on March 20**
  - Only critical activities allowed (e.g. feeding animals)
- **March 27: Exemption process started for research**
  - April, May, and June: Only university approved research
  - Our Lab: *One* approved team of 2 for all field work
- **June 20: NCSU moved to Phase II of Research Restart**
  - No reduction in employee pay through Phase II



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## Current Status

- **Currently in Phase III-B**
  - Employees must be designated as mandatory to work
  - On campus research limited to 1 person per 150 sq ft
  - Greenhouse work allowed with 1 person per house
  - Field work allowed with social distancing; generally 2 people per project limit
  - 1 person per vehicle for travel
  - Out of state travel requires 14 day prior approval
- Trying to complete 7 months of research in 4 months



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## Future Expectations

- **Phase III-B...**
  - Likely until widespread vaccination
  - Field work will continue with teams of 2
  - Greenhouse and lab research will continue
  - For Gaston:
    - Project objectives should be fulfilled in 2021
    - No significant deviations in deliverables

# ***NC State Research Update***

## **Integrated Research Project**

### **Lyngbya Management**

- Draft literature review prepared (under review)
- Lab testing of product efficacy conducted
- Expansion of field treatments to operational level (2021)
- Small scale control evaluation (ongoing)
  - Frequency, Application Techniques, Additional Algaecides
  - Rhodamine Dye Study (pushed back to 2021)
- Lyngbya Growth and Life Cycle (some data collected 2020; 2021 primary effort)
- ***Deliverables: 2018 and 2019 final report***

### **Water Quality**

- Monthly data collection (ongoing)
- Sediment samples (2021)
- E. coli sampling (ongoing)
- Monthly nutrient sampling (ongoing)
- Developing predictive GIS model for Lyngbya using water quality data (2021)
- ***Deliverables: 2019 final report***

# NC State University Update

## Integrated Research Project

### Integration of New Technology

- Detection of Lyngbya using Biosonics (ongoing; Andrew presentation)
- Shoreline surveys (ongoing)
- Geospatial modeling using vegetation and water quality (2021)
- ***Deliverables: 2018 and 2019 final lyngbya treatment evaluation reports  
2019 final vegetation report***

### Improved Revegetation Systems

- Geospatial modeling using vegetation, water quality, land use, and sediment nutrients (2021)
- Identify areas for native plant mitigation (2021)
- Extension work with land owner addressing BMP's (ongoing)
- Novel submersed vegetation establishment (2021)

### Additional Hydrilla Management

- Evaluate new herbicide for hydrilla management
  - Lab component (complete)
  - Field component (suspended due to low field acreage)
  - ***Deliverables: Graduate student's professional poster presentation***