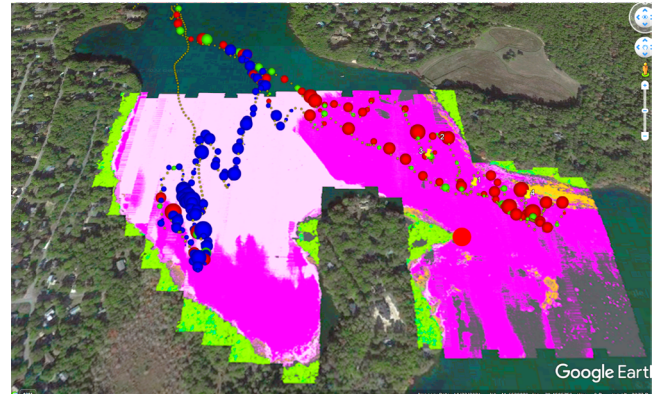




SCAN ME

Harmful Algal Blooms

Early Detection using Hyperspectral Imaging from a Lightweight UAV



SUMMARY

- Exposure to cyanobacteria (blue-green algae, harmful algal blooms (HABs)) can harm both humans and animals.
- HABs have different photosynthetic pigments than normal algae.
- Hyperspectral imaging can distinguish SPECTRA in different pixels.
- Work with experts to get ground truth to test this detection method.
- UAV allows for optimal balance of resolution and capture area.
- HSI can be used to identify and quantify Harmful Algal Blooms.
- Prompt identification can improve efficacy of mitigation strategies.

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