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Cayuga Lake Hydrilla: 2022-2023 Project Summary and Forecast



2022: DEC Joins the Field Effort

- DEC
 - Point-intercept surveys
 - Tuber and snorkel surveys
- SOLitude Lake Management
 - Treatment and water samples
- Northeast Aquatic Research, LLC
 - Point-intercept and tuber surveys



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2022: SOLitude Lake Management

- 10 week low-dose Sonar H4C treatment (fluridone)
- Spot treatment with Harpoon (chelated copper) as needed
- Water Sampling following treatment



2022 DEC Hydrilla Treatment and Monitoring Areas
Cayuga Lake, Aurora, NY

- DEC Monitoring Area 2022
- DEC Fluridone Treatment Areas 2022
- DEC Harpoon Copper Treatment Area (9/7/22)
- SOLitude Water Sample Sites (Fluridone)
- SOLitude Water Sample Sites (Harpoon)



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2022: Additional DEC Survey Areas

- Identified launches and high-traffic areas (FLPRISM)
- Surveyed mid and late-season when feasible



2022 DEC Hydrilla Point Intercept Survey Locations
Cayuga Lake, NY



DEC Point Intercept Survey Locations



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2022: Northeast Aquatic Research, LLC

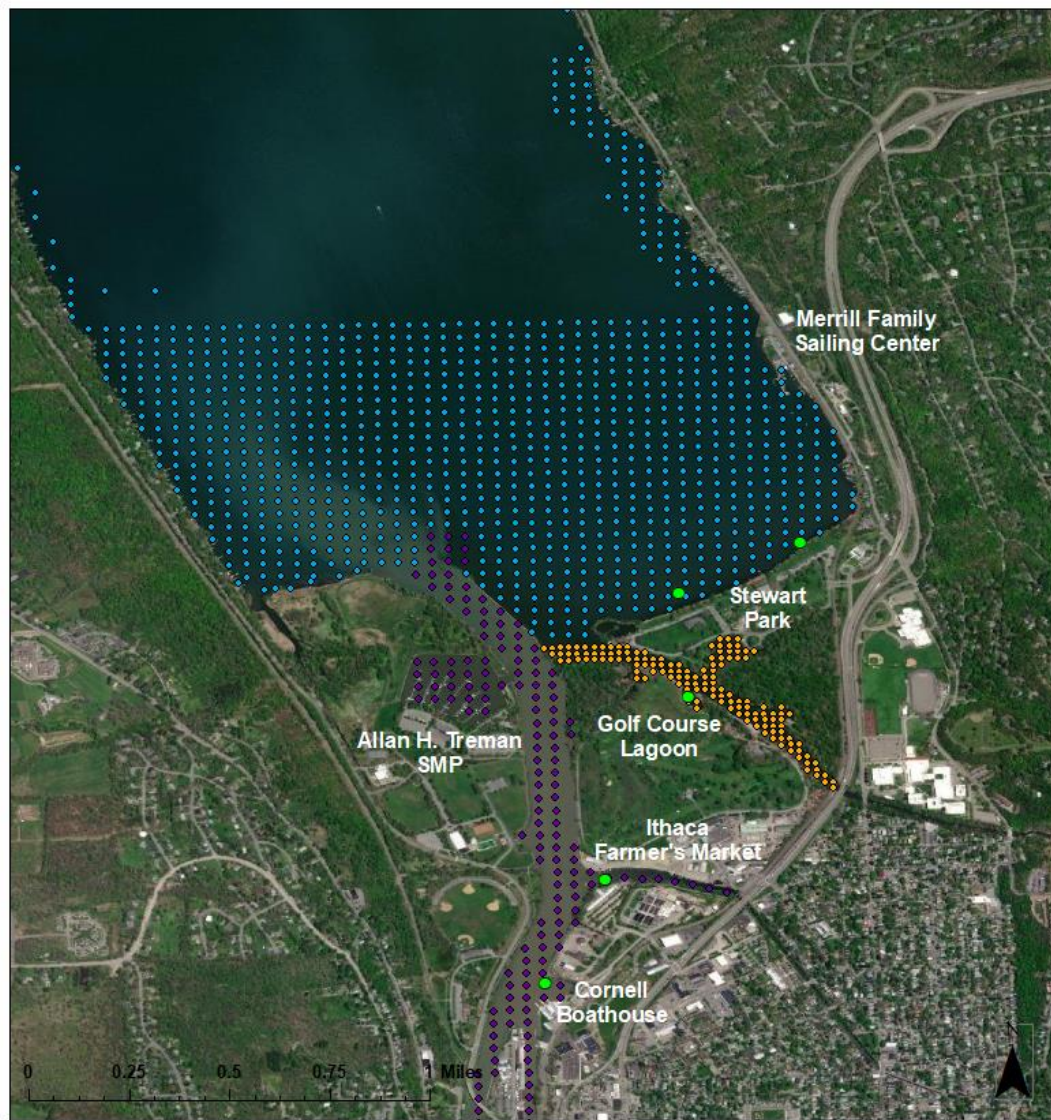
- South Cayuga Lake point-intercept survey
- Hydrilla tuber sampling
- Assess plant health and herbicide efficacy



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2022: South Cayuga Lake Survey Efforts

- Continuation of work performed by Racine-Johnson Aquatic Ecologists
- South Lake Cayuga survey
- Tuber sampling at 5 historic hydrilla locations



**2022 DEC Hydrilla Point Intercept Surveys
Cayuga Lake, Ithaca, NY**

- ◆ Northeast Aquatic Research, LLC Survey Area
- ◆ Fall Creek Survey Area
- ◆ Cayuga Lake Inlet Survey Area
- Hydrilla Tuber Sampling Locations



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2022: DEC Monitoring Area Hydrilla Locations

- Early and mid-season finds
- SePRO SCUBA survey (mid-July)
- Long Point State Park launch
- Hydrilla found <1% of tosses



2022 DEC Hydrilla Locations Relative to Monitoring Area
Cayuga Lake, Aurora, NY

- DEC Monitoring Area 2022
- DEC Fluridone Treatment Areas 2022
- DEC Harpoon Copper Treatment Area (9/7/22)
- Hydrilla found through September
- Hydrilla found October or Later



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2022: Additional Hydrilla Locations

- Sheldrake Point: Hydrilla discovered through SCUBA
- Hydrilla confirmed and additional points found using point intercept surveys
- Delineation surveys conducted ~1 mile North and South



2022 DEC Hydrilla Surveys and Locations
Cayuga Lake, Sheldrake Point, NY

- Additional Hydrilla Locations
- Additional Survey Data Locations
- Original Survey



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2023: DEC Action Items

- Continue treatment and adjust for new finds
- Continue point-intercept surveys
- Continue tuber sampling as needed
- Increase underwater survey intensity (SCUBA/snorkel)
- Education and Outreach



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Looking to the Future

- The Finger Lakes are a precious freshwater resource
- Hydrilla threatens ecosystems, recreational and economic values
- Prevention is the best method and takes a community effort