

Great Lakes Acoustic Telemetry Observation System: past, present, and future

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History

- **Creation of GLATOS – miniature OTN**

Mission Statement

... is a **network** of researchers conducting acoustic telemetry projects on fish movement in the Laurentian Great Lakes. GLATOS provides these researchers with opportunities to **develop partnerships** and **share fish detection data** among projects.

Broader than just GLFC – GLRI projects, GLATOS is to serve all projects in the basin!

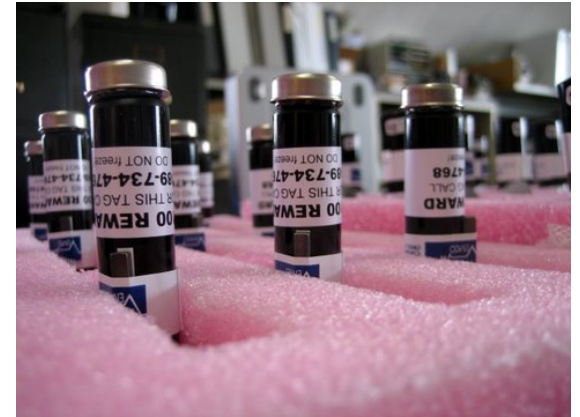
Current Status of GLATOS

What are our connections to OTN?

- **OTN advised GLATOS on issues likely to face – several exchanges – receivers, tag detections, project communications, wave gliders, data management.**
- **GLATOS to assist and provide funds in support of OTN and the ICFT meetings (Halifax) in 2015**
 - 3rd International Conference on Fish Telemetry
- **Loan of 45 receivers to Lake Erie**
- **GLATOS adopted a modified OTN data format**
- **GLATOS data management – desire to link to OTN database**
- **Desire to continue to develop OTN relationship via conferences, joint projects, data management, etc.**

Current Status of GLATOS

- 30 species tagged
- 3,966 fish released
- 2,330 receiver deployments
- 1,042 receiver stations
- 106,278,268 total tag detections
- 51,931,788 detections matched to fish



Future Challenges

Data – Access and Analysis

51,931,788 tag detections = A Blessing and a Curse!!

Data management – extraction of subsets required to address specific questions.

Work in Progress – will secure a data steward/manager **over the summer** to address these issues and help link to OTN data management protocols.

Summary

GLATOS is growing – new projects and investigators!

Started publishing! – critical products to produce.

Fishery Agencies – hugely interested, GLATOS presents at the Lake Committee meetings each year.

Momentum – Agencies are now considering what questions they might ask with the receiver network. They are offering scarce funds of their own to pursue.

Funding growing – New funding due to momentum.

External Linkages – Look forward to further connections and collaboration with OTN