Discovering Canadian underwater acoustic datasets

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1: INTRODUCTION

Importance of Data Discovery
- Data is an asset to organisations
- Fosters data reusability
- Avoids duplication of effort

Underwater Acoustics
- Underwater acoustic data is important for understanding how sound affects the marine environment
- Data is large and unstructured
- No service exists that lists underwater acoustic datasets from multiple sources in Canada

2: METHODS

We developed a service with:
- Two GeoNetwork instances - one read-only and one modifiable
- Custom metadata schema support
- Harvesting capabilities
- User-Friendly Dynamic Submission Interface
- GeoNetwork REST API and ElasticSearch powers submission interface and data discovery layer

See poster by K. Mortimer et al. for info on metadata standard

3: LESSONS LEARNED

- GeoNetwork’s documentation is limited
- The GeoNetwork development mailing list is the best place to find help
- ElasticSearch integration with GeoNetwork allows for robust searching of records

4: NEXT STEPS

In Progress
- Submission form mostly complete
- Record display attached to ElasticSearch for keyword and geographical searching

Currently Exploring
- Create a workflow for adding annotations to metadata
- Creating user account system for users to save their submission form before submitting