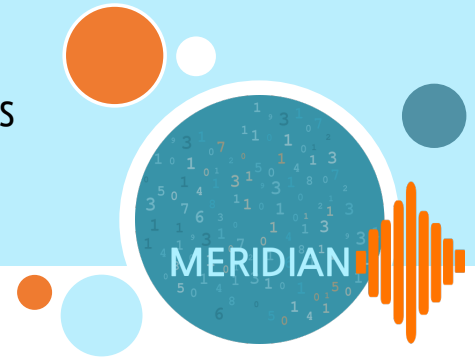# Discovering Canadian underwater acoustic datasets

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**MERIDIAN**

## 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
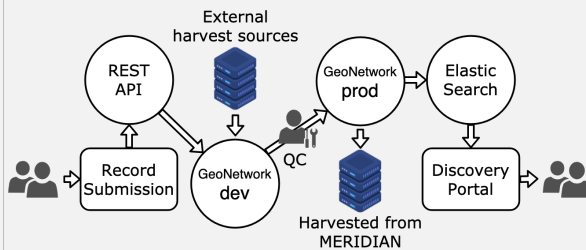
## 2: METHODS



Figure 1. Profile of MERIDIAN Discovery Portal elements and workflow for record submission

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

**How do we make Canadian underwater acoustic data more discoverable?**

## 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

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