Implementing a new Carolina Digital Repository: customizations and change

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Background

Carolina Digital Repository split
• Institutional repository content → Hyrax
• Digital collections content → custom Fedora

New Platform Wish List
• Custom branding
• SEO
• Analytics
• Content discovery
• Support existing use cases
• Consolidate worktypes
Project scope by the numbers

Works to Migrate: 28,000-ish
Worktypes: 9
Collections: 18
Workflows: 5
Staff: 16+

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Extremely simplified migration flow

- Set up
- Address key missing features
- Metadata work
- Conceptualize content
- Migration prep
- Migration and QA
- Testing and bug fixes
- Documentation and communication
Local work

- People objects*
- Object-specific permission assignments*
- Merging analytics*
- Admin roles and permissions
- Tombstones
- Department browse
- Link from child work to parent
- DOI minting
- EDTF conversion

Community work

- Analytics work
- Simple UI fixes (moving or adding links, enforcing application template, etc)
- Email text customizations
- Documentation
- Release testing process
People objects

- Group name, ORCID, and affiliation
- Nested objects on work record in fedora and structured text in solr
- Editable in work form
- Notes:
  - When removing object, only the associated uri on main record is removed
  - Scripting edits to people objects requires deleting attributes before replacing with new values
The effects of invasive earthworms on understory plant community composition in sugar maple - basswood forests of the Chippewa National Forest, MN over two decades

Creator
Alexander, Genevieve
Affiliation: College of Arts and Sciences, Curriculum in Environment and Ecology

Abstract
Non-native earthworms have invaded natural areas in the Great Lakes region of North America. In Chapter 1, I present a literature review to examine the effects of invasive earthworms on soil properties, and the thickness of the D-horizon as a predictor variable to assess the presence of invasive earthworms in Minnesota. In Chapter 3, I examine the effects of invasive earthworms on understory plant community composition, understanding the effects of invasive earthworms on understory plant composition over time predicted as invasive earthworms continue to spread across the Great Lakes region.

Date of publication
2018

Keyword
Invasive earthworms
Forest
Botany
Ecology
Sugar maple - basswood
Hardwood forests
Plant community composition
Long-term studies
Environmental science

Resource type
Masters Thesis

Advisor
Almondinger, John C.
Peet, Robert K.
White, Peter S.
<http://id.loc.gov/vocabulary/relators/cre>
<http://localhost/concern/dissertations/vx021f082#nested_person122643300>;

<http://id.loc.gov/vocabulary/relators/ths>
<http://localhost/concern/dissertations/vx021f082#nested_person122163200>,
<http://localhost/concern/dissertations/vx021f082#nested_person122305620>,
<http://localhost/concern/dissertations/vx021f082#nested_person122520500>;

<http://localhost/concern/dissertations/vx021f082#nested_person122163200>
<http://www.loc.gov/mods/rdf/v1#name> "Peet, Robert K." .

<http://localhost/concern/dissertations/vx021f082#nested_person122305620>
<http://www.loc.gov/mods/rdf/v1#name> "Almendinger, John C." .

<http://localhost/concern/dissertations/vx021f082#nested_person122520500>
<http://www.loc.gov/mods/rdf/v1#name> "White, Peter S." .

<http://localhost/concern/dissertations/vx021f082#nested_person122643300>
<http://schema.org/affiliation> "Curriculum in Environment and Ecology";
<http://www.loc.gov/mods/rdf/v1#name> "Alexander, Genevieve" .
Fedora record after nested object deletion
Default mediated workflow

- New
  - role: depositing
  - submit for review
    - role: depositing
    - under review
      - role: approving
      - request changes
        - role: approving
        - changes required
          - role: approving
      - approve
        - role: approving
        - approved
          - role: none
UNC honors workflow

- Custom notifications
- Additional steps for withdrawing items
- Custom permissions service
  - Assign group permissions by affiliation on submission
Analytics

- We wanted to merge our google analytics data in hyrax for migrated content
  - Used same account for old and new repositories
  - During migration, we generated redirect mappings
  - Adjusted google analytics query filters to use regular expressions to search for old and new ids
  - Used original ingest date as query start date for migrated works
Lessons learned

● Migrations take longer than you think
  ○ Never give a go live date until it’s certain
  ○ Are cost estimations ever accurate? Or is it scope creep?
  ○ Celebrate smaller milestones

● No system is perfect
  ○ Flexibility paid off
  ○ Solve for the need, instead of replicating exact functionality

● It paid off to work in the community
  ○ Learning from the community was great
  ○ Good examples of implemented code
Questions?

Visit the CDR!

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