

Islandora Newspaper Batch

Introduction

The Islandora Newspaper Batch module uses the Islandora Batch framework to provide a **command-line** (drush) and a **GUI** (Drupal interface) option for adding a batch file of newspaper issues and pages to an existing Islandora Newspaper object.

Batch-loading newspapers is a two-step process.

1. Preprocessing: Drupal creates entries in the database for each object (issue and page) that will be added.
2. Ingest: The data is ingested and derivatives are generated as part of the Islandora batch functions.

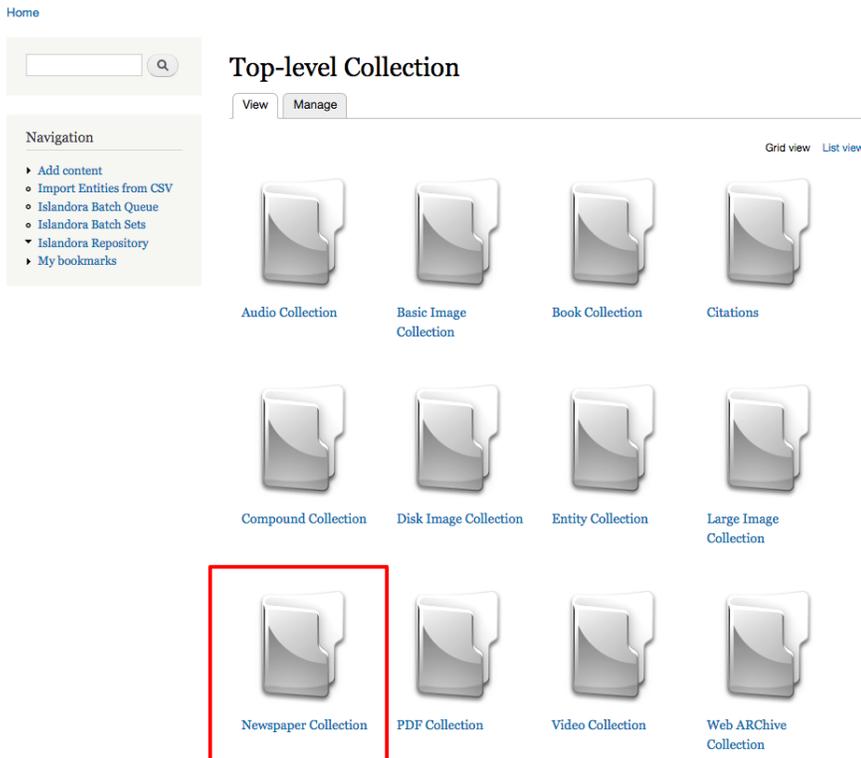
Newspaper Batch uses the value in the MODS dateIssued field on each issue to populate the issue browsing display for newspaper. The data in this field must be formatted as YYYY-MM-DD. If only YYYY is entered, the interface will use the current month and day for the issue.

Creating a new Newspaper object

- Newspaper Batch can only be used with an existing Newspaper object (islandora:newspaperCModel). To create a new Newspaper object:
 - Go to <http://localhost:8000> and log in
 - Navigation > Islandora Repository



- Click on the **Newspaper Collection**

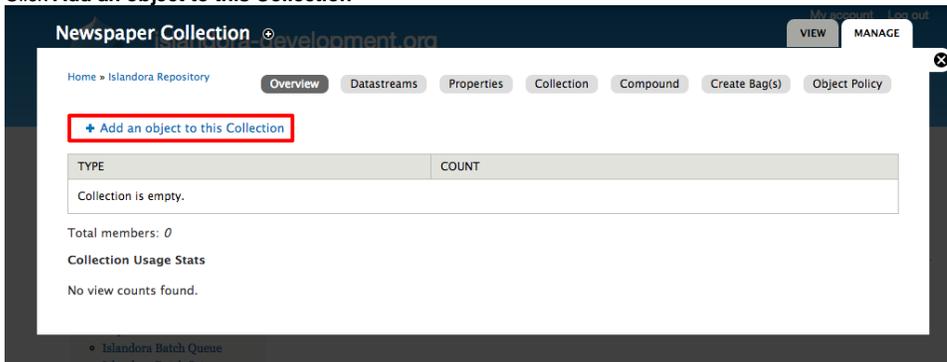


- Click **Manage** tab

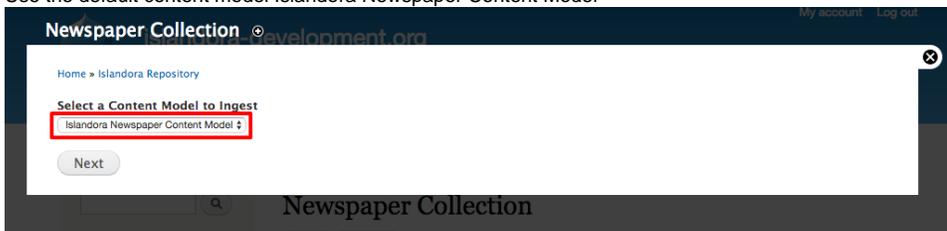
Newspaper Collection



- Click **Add an object to this Collection**



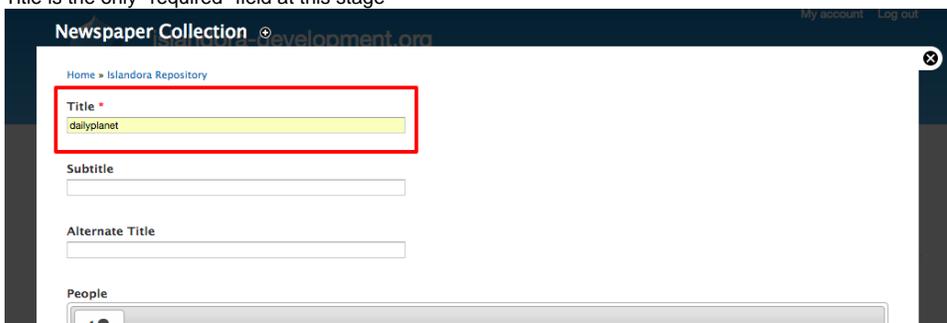
- Use the default content model **Islandora Newspaper Content Model**



- If you have MARCXML to submit, select the file, upload it, and click Next. If you do not have MARCXML, just click **Next** (MARCXML is not required at this step).
- If you do not want this option to appear again, disable the "Islandora MARCXML" module.



- Title is the only "required" field at this stage



- Click ingest and it should confirm your ingest

✔ "dailyplanet" (ID: islandora:1) has been ingested.

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Preparing files for batch ingest

The Newspaper Batch module is designed for digitized newspapers where **each page is represented by an individual TIFF image file**. These TIFF files, along with derivatives, full text, and metadata, must be arranged in directories according to a very specific structure.

Tips for preparing batch ingest files

- Generally, Islandora performs best with ZIP files smaller than 2 GB. If your files are larger, consider using drush with the --type=directory option.
- Within the zip file or target directory (if using drush and the --type=directory option), each top-level directory represents a newspaper issue.
- Files within the issue directory will become datastreams on the issue object (e.g. this is where you put issue-level metadata including a MODS file with the date of the issue).
- Directories within the issue directory contain files that will become newspaper page objects. These are usually named numerically, as they are processed in numerical order.
- File names must match their respective Islandora datastream IDs. This means that every page image (tiff) needs to be renamed "OBJ.tif". If you have created derivatives for the page objects, these can be named respectively (e.g. TN.jpg, OCR.txt, ...)

Sample single-issue batch folder hierarchy

```
batch.zip
  issue1
    001
      OBJ.tif
    002
      OBJ.tif
  MODS.xml - this becomes the MODS record for the issue-level object
```

Sample batch folder hierarchy with derivatives

```
batch02.zip
  issue1
    001
      JP2.jp2
      JPG.jpg
      OBJ.tif
      OCR.txt
      TN.jpg
    2
      JP2.jp2
      JPG.jpg
      OBJ.tif
      OCR.txt
      TN.jpg
  MODS.xml
```

Descriptive Metadata

If MODS metadata is not available for issue or page objects, the following formats can be supplied and will be automatically transformed to general MODS and DC.

- DC.xml
- MARCXML.xml
- MARC.mrc

Other things to note about metadata:

- If no MODS is provided or available from transformations for the issue-level object, the directory name (issue01 in the example above) will be used as the issue title.
- The issue browser function on each newspaper object page is populated by the "dateIssued" field in MODS from each issue record. This date must be present and formatted as YYYY-MM-DD.
- Known issue: if only YYYY is included in the dateIssued field, the batch ingest will supply a month and day matching the current date, which may result in incorrect descriptive metadata.

Sample Issue-level MODS.xml file

Here is a sample MODS file describing a newspaper issue.

```
<?xml version="1.0" encoding="UTF-8"?>
<mods xmlns="http://www.loc.gov/mods/v3" xmlns:mods="http://www.loc.gov/mods/v3" xmlns:xsi="http://www.w3.org/2001
/XMLSchema-instance" xmlns:xlink="http://www.w3.org/1999/xlink">
  <titleInfo>
    <title>Canadian Jewish Review, June 1, 1928</title>
  </titleInfo>
  <originInfo>
    <place>
      <placeTerm>Toronto, Ontario</placeTerm>
    </place>
    <publisher>Canadian Jewish Review </publisher>
    <dateIssued encoding="iso8601">1928-06-01</dateIssued>
  </originInfo>
  <language>
    <languageTerm>eng</languageTerm>
  </language>
  <subject>
    <topic>Jews, Canadian -- Ontario -- Toronto -- History -- Newspapers</topic>
    <topic>Jews, Canadian -- Quebec -- Montreal -- History -- Newspapers</topic>
    <topic>Jews -- History -- 20th century -- Newspapers</topic>
    <topic>Jews -- Canada -- Periodicals</topic>
    <topic>Canada -- History -- 20th century -- Newspapers</topic>
    <topic>Ontario -- History -- 20th century -- Newspapers</topic>
    <topic>Quebec -- History -- 20th century -- Newspapers</topic>
    <topic>Toronto (Ont.) -- History -- 20th century -- Newspapers</topic>
    <topic>Montreal (Que.) -- History -- 20th century -- Newspapers</topic>
  </subject>
  <identifier>Cjewish-1928-06-01</identifier>
</mods>
```

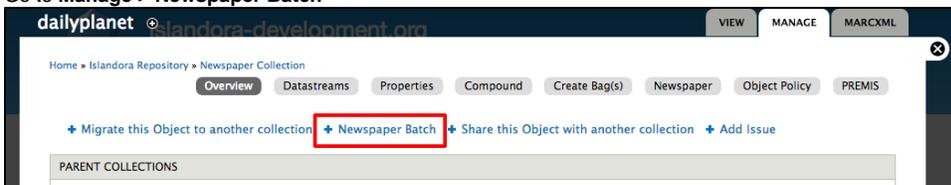
Using Newspaper Batch from the Drupal interface

To use Newspaper Batch in Islandora:

1. Log in as a user with batch ingest permissions.
2. Navigate to a Newspaper Content Model object and click **Manage**.
3. In the **Overview** tab, click **Newspaper Batch**.
4. Upload the ZIP file and set the appropriate options for this batch, then click **Ingest**.

Newspaper Batch Ingest options

- Go to **Manage > Newspaper Batch**



Home » Islandora Repository » Newspaper Collection

dailyplanet o

OVERVIEW DATASTREAMS PROPERTIES COMPOUND CREATE BAG(S) NEWSPAPER OBJECT POLICY PREMIS

Zip file *

No file chosen

A Zip file containing a number of newspaper issues. Each newspaper issue is structured as a directory, containing a number of directories representing pages. Basenames will be used as datastream identifiers except or "--METADATA--", "--METADATA--" can be either a .xml containing XML (MODS, DC or MARCXML), or a .mrc (Binary MARC), which will be transformed to produce both a MODS and DC stream.

Create PDFs?
Whether or not we should generate PDFs for the newspaper issues after ingesting all of the pages.

Namespace for created objects?

Newspaper issue and page objects will be constructed within this namespace.

Generate OCR
Generate OCR for the pages of each newspaper issue.

Generate HOCR
Generate HOCR for the pages of each newspaper issue.

Aggregate OCR
Consolidate the page OCR and add it to the issues after ingesting all of the pages.

Notify admin after ingest?
Whether or not we should notify the site admin that a newspaper issue has been ingested after the ingest of the newspaper issue completes (requires relevant "Rules" rule).

Ingest immediately?
If not selected, objects will just be preprocessed into the queue of objects to be ingested, to be fully-processed (and ingested) later--whenever an admin deems it an appropriate time.

- **Zip file** - Upload the ZIP file for batch ingest.
- **Create PDFs?** - Checking this box creates a PDF derivative that contains all the pages associated with a newspaper issue.
- **Namespace for created objects** - Set the namespace for the issue and page objects created for this batch ingest.
- **Generate OCR?** - Checking this box causes OCR to be generated for each Page object. OCR will be attached as a datastream to each page. If checked, another option appears below it, "Aggregate OCR?".
- **Generate HOCR?** - Checking this box causes HOCR to be generated for each Page object (text highlighting after full text search). HOCR will be attached as a datastream to each page.
- **Aggregate OCR?** Check this box to create an OCR datastream in the issue object that aggregates the OCR datastreams from all of the page-level objects in that issue.
- **Notify admin after ingest?** - Check this box to send an email to the site admin (user 1) that a newspaper batch ingest has completed. This requires the Drupal Rules module and a rule for newspaper batch notifications.
- **Ingest immediately?** - Checking this box will cause the batch to go through both steps of the ingest (pre-processing and actual ingest) immediately.
 - If you do not check "Ingest Immediately", the files will be pre-processed only and added to the Islandora batch queue for an administrator to approve.
 - To approve the batch, go to Administration > Reports > Islandora Batch Sets and select "View Items in Set" next to an unprocessed set. To process the set, click "Process Set" and process all items.

[+ Delete set](#) [+ Process Set](#) [+ Set state of all items](#)

Displaying 1 - 4 of 4

Item State

ID	STATE	MESSAGE	PARENT	SET ID	
islandora:30	Not ready to ingest; children pending			4	<input type="button" value="Set item state"/>
islandora:31	Ready to ingest		islandora:30	4	<input type="button" value="Set item state"/>
islandora:32	Ready to ingest		islandora:30	4	<input type="button" value="Set item state"/>
islandora:33	Ready to ingest		islandora:30	4	<input type="button" value="Set item state"/>

Using Newspaper Batch from the command line (Drush)

If you have many ZIP files to ingest, or if the ZIP files are too large to ingest through the interface, you can also batch ingest newspapers from the Drupal command line with Drush.

First, your file(s) need to be accessible by the Drush instance. That usually means that they need to be uploaded to the Islandora server (scp, ftp, using a mounted storage drive, etc). The --scan_target option (--target option in Drush 6 and above) is either a directory of issue directories, or a zip file of

issue directories. That is, the directories representing the issues to ingest (or issue, if only one) must be one level below the directory or zip file used as the --scan_target.

Second, preprocess the file(s). For a full list of the command-line parameters, see "drush help islandora_newspaper_batch_preprocess". The batch options are also described in the [Islandora Batch](#) module.

```
drush -v -u 1 --uri=http://localhost islandora_newspaper_batch_preprocess --type=directory --scan_target=/path/to/
/issues --namespace=dailyplanet --parent=islandora:dailyplanet
```

This will populate the queue (stored in the Drupal database) with PID entries. Note that the --parent parameter must be a newspaper title object, not an issue object or a collection object.

Here are the options in the drush command:

```
drush help islandora_newspaper_batch_preprocess
```

Preprocessed newspaper issues into database entries.

Options:

--aggregate_ocr A flag to cause OCR to be aggregated to issues, if OCR is also being generated per-page.

--content_models A comma-separated list of content models to assign to the objects. Only applies to the "newspaper issue"

level object.

--create_pdfs A flag to cause PDFs to be created in newspaper issues. Page PDF creation is dependant on the configuration

proper. within Drupal

--directory_dedup A flag to indicate that we should avoid repreprocessing newspaper issues which are located in directories.

--do_not_generate_ocr A flag to allow for conditional OCR generation.

--email_admin A flag to notify the site admin when the newspaper issue is fully ingested (depends on Rules being enabled).

--namespace The namespace for objects created by this command. Defaults to namespace set in Fedora config.

--parent The collection to which the generated items should be added. Only applies to the "newspaper issue" level

object. If "directory" and the directory containing the newspaper issue description is a valid PID, it will

be set as the parent. If this is specified and itself is a PID, all newspapers issue will be related to the

Required. given PID.

--parent_relationship_pred The predicate of the relationship to the parent. Defaults to "isMemberOf".

--parent_relationship_uri The namespace URI of the relationship to the parent. Defaults to

external#". "info:fedora/fedora-system:def/relations-

--target The target to directory or zip file to scan. Required.

--type Either "directory" or "zip". Required.

--wait_for_metadata A flag to indicate that we should hold off on trying to ingest newspaper issues until we have metadata

available for them at the newspaper issue level.

Aliases: inbp

Third, process all items in the batch queue:

```
drush -v -u 1 --uri=http://localhost islandora_batch_ingest
```

Troubleshooting

You may get a warning. "Failed to get issued date from MODS for dailyplanet:1"

After ingesting everything looks normal but the "issue" you ingested is missing.

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In collections

- Newspaper Collection

Details

- Click **Manage > Newspaper**

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VIEW MANAGE MARCXML

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Overview Datstreams Properties Compound Create Bag(s) Newspaper Object Policy PREMIS

+ Migrate this Object to another collection + Newspaper Batch + Share this Object with another collection + Add Issue

PARENT COLLECTIONS

Newspaper Collection

- Give it a date to start publishing the article. It will help you with the date picker.

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VIEW MANAGE MARCXML

Home » Islandora Repository » Newspaper Collection

Overview Datstreams Properties Compound Create Bag(s) Newspaper Object Policy PREMIS

+ Add Issue

ISSUES MISSING A DATEISSUED FIELD.
These Newspaper Issues will not appear in the default browse listing until they have valid dates. Add a date in the format "YYYY-MM-DD" and save the changes.

Canadian Jewish Review, June 1, 1928 (dailyplanet:1)

September 2016

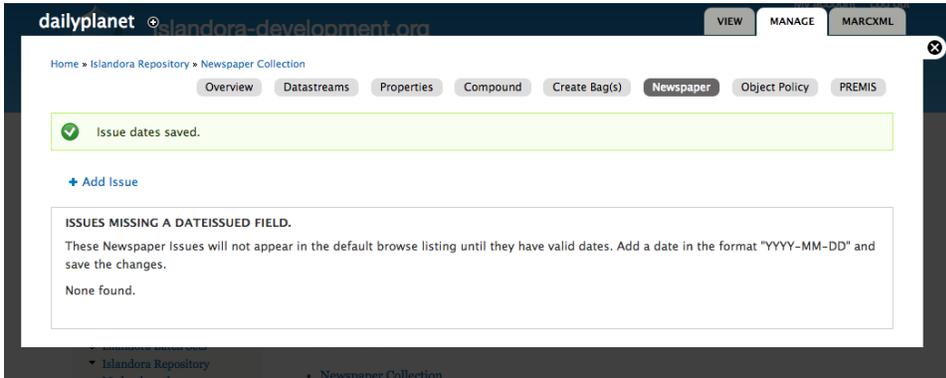
SU	MO	TU	WE	TH	FR	SA
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

In collections

- Newspaper Collection

Details

- Confirmation!



- Now you'll see a date on the Newspaper page

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View Manage MARCXML

Expand all months Collapse all months

2016

September

September 30, 2016

In collections

- Newspaper Collection

▸ Details

Additional Documentation

Further documentation for this module is available at the [Islandora Newspaper Batch github repository](#).