GeoNetwork 3 features relevant to OpenWIS 4

By Dominic Woollatt - Met Office

08 March 2017

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Links

- OpenWIS v4.0
  - http://cgn-openwis.eurodyn.com/geonetwork
- GeoNetwork 3.2.1
  - http://cgn-original.eurodyn.com:8080/geonetwork

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My Observations:

- **User Experience**
  - Home page
  - Search page and results
  - Subscription/ad-hoc (if available)
- **Admin page**
  - Groups
  - Privileges
  - Categories
  - Users
  - Blacklisting
  - Harvesting
  - Metadata – standards/adding/importing/editing
  - Reports
  - Status/Statistics
  - Batch Process
- **What's Missing compared to v3.14**

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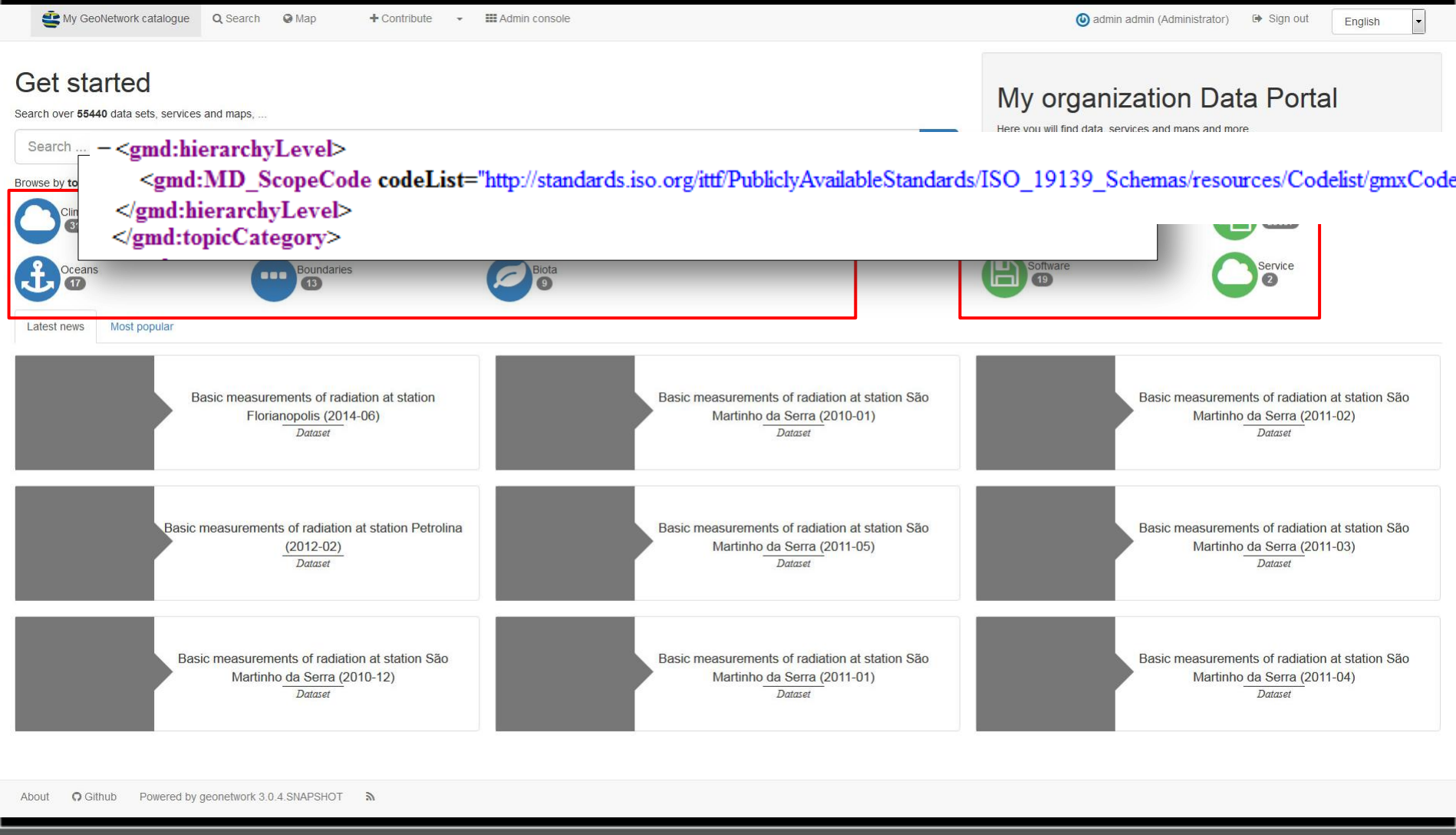
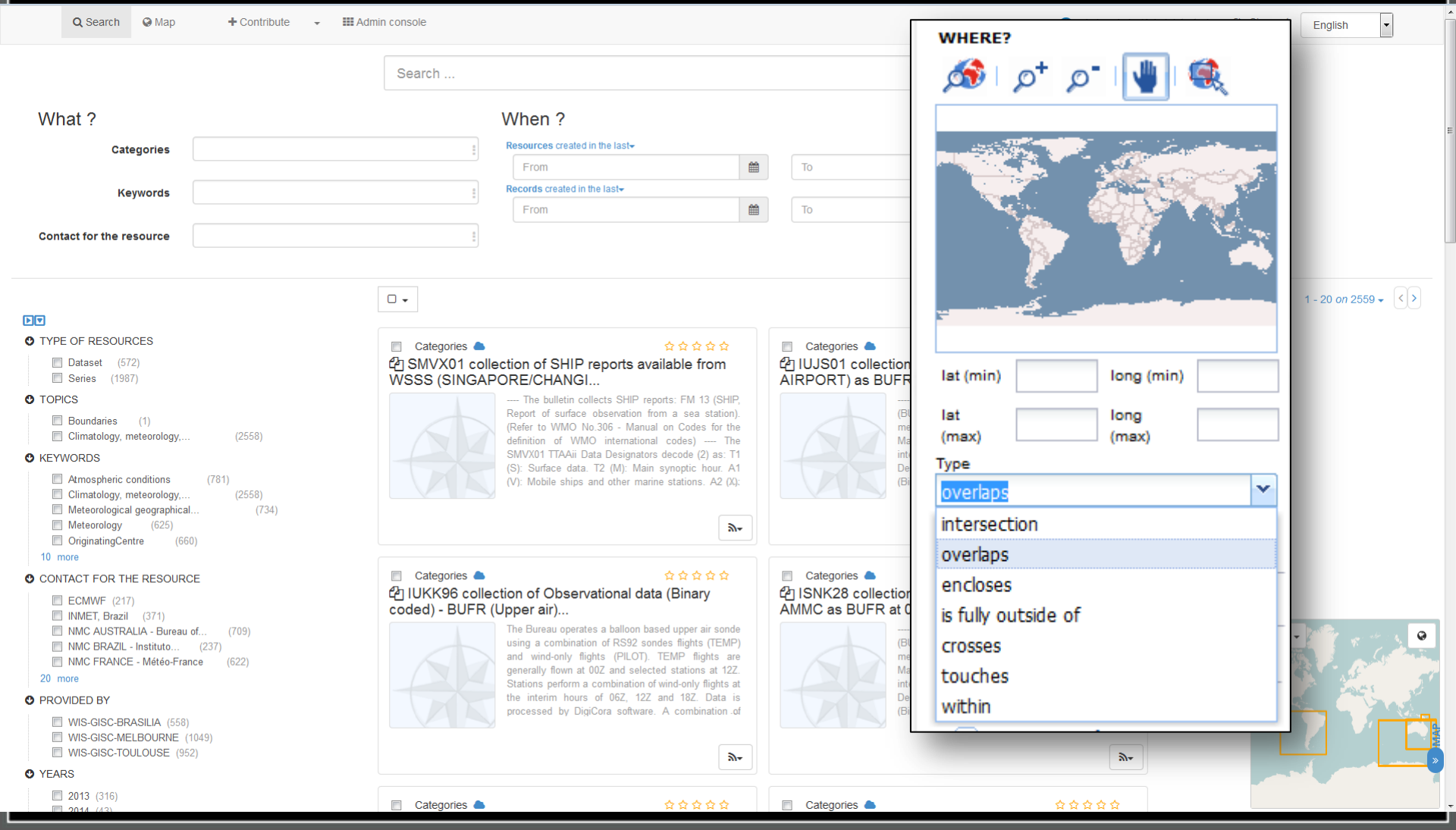
Home page




```
− <gmd:hierarchyLevel>
    <gmd:MD_ScopeCode codeList="http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_19139_Schemas/resources/Codelist/gmxCodel
  </gmd:hierarchyLevel>
 </gmd:topicCategory>
```

Search Page


Search
Map
Contribute
Admin console
English
Search ...
What ?
Categories
Keywords
Contact for the resource
When ?
Resources created in the last
From
To
Records created in the last
From
To
WHERE?
lat (min)
long (min)
lat (max)
long (max)
Type
overlaps
intersection
overlaps
encloses
is fully outside of
crosses
touches
within
1 - 20 on 2559
TYPE OF RESOURCES
Dataset (572)
Series (1987)
TOPICS
Boundaries (1)
Climatology, meteorology,... (2558)
KEYWORDS
Atmospheric conditions (781)
Climatology, meteorology,... (2558)
Meteorological geographical... (734)
Meteorology (625)
OriginatingCentre (660)
10 more
CONTACT FOR THE RESOURCE
ECMWF (217)
INMET, Brazil (371)
NMC AUSTRALIA - Bureau of... (709)
NMC BRAZIL - Instituto... (237)
NMC FRANCE - Météo-France (622)
20 more
PROVIDED BY
WIS-GISC-BRASILIA (558)
WIS-GISC-MELBOURNE (1049)
WIS-GISC-TOULOUSE (952)
YEARS
2013 (316)
Categories
SMVX01 collection of SHIP reports available from WSSS (SINGAPORE/CHANGI...
IUJS01 collection
AIRPORT) as BUFR
IUKK96 collection of Observational data (Binary coded) - BUFR (Upper air)...
ISNK28 collection
AMMC as BUFR at

View Metadata

My GeoNetwork catalogue | Search | Map | + Contribute | Admin console | admin admin (Administrator) | Sign out | English

Back to search

HTAW85 GRIB bulletin available from ECMF (EUROPEAN CENTRE FOR MEDIUM RANGE WEATHER FORECASTS) at 00 UTC

Updated: 5 years ago

---- The bulletin is coded as GRIB code form:
FM 92 (GRIB, General regularly-distributed information in binary form) .

(Refer to WMO No.306 - Manual on Codes for the definition of WMO international codes)

---- The HTAW85 TTAAii Data Designators decode (2) as:
T1 (H): Grid point information (GRIB).
T2 (T): Temperature.
A1 (A): 0° - 90°W northern hemisphere.
A2 (W): Not assigned.
ii (85): 850 hPa.

(2: Refer to WMO No.386 - Manual on the GTS - Attachment II.5)

Download and links

	HTAW85 GRIB bulletin available from ECMF (EUROPEAN CENTRE FOR MEDIUM RANGE WEATHER FORECASTS) at 00 UTC at RSMC-Medium-Range-Forecasting ECMWF... RSMC-Medium-Range-Forecasting ECMWF Reading	Open link
	HTAW85 GRIB bulletin available from ECMF (EUROPEAN CENTRE FOR MEDIUM RANGE WEATHER FORECASTS) at 00 UTC at RSMC-Medium-Range-Forecasting ECMWF... RSMC-Medium-Range-Forecasting ECMWF Reading	Open link

OpenWIS Subscriptions

	Subscribe	Subscribe

About this resource

Temporal extent

Publication date
2001-03-21

Provided by

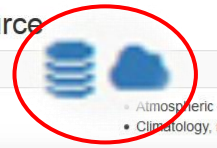
Share on social sites

Rating

View Metadata cont…

About this resource

Categories	
Keywords	• Atmospheric conditions • Climatology, meteorology, atmosphere
Language	
Resource identif	
Legal constraint	
Contact for the resource	Point of contact **RSMC-Medium-Range-Forecasting ECMWF Reading - ECMWF** Data Services Shinfield Park, READING, RG2 9AX, UNITED KINGDOM Call T+44 1189869450



```
− <gmd:keyword>
    <gco:CharacterString>Atmospheric conditions</gco:CharacterString>
  </gmd:keyword>
```

Technical information

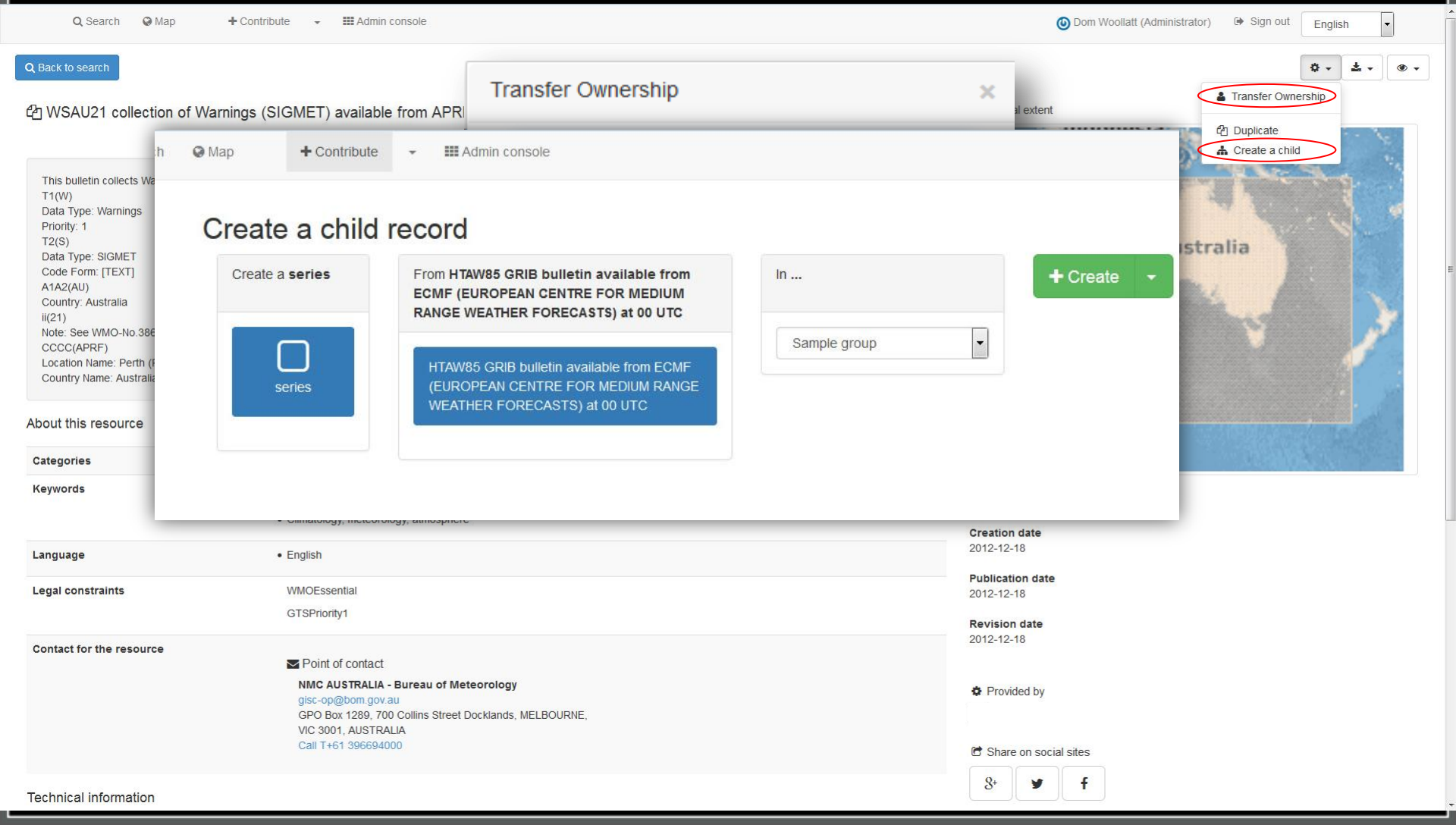
Update frequency	Daily
Representation type	Grid
Format	GRIB
Lineage	High data quality controlled according to the procedures of the GTS

Metadata information

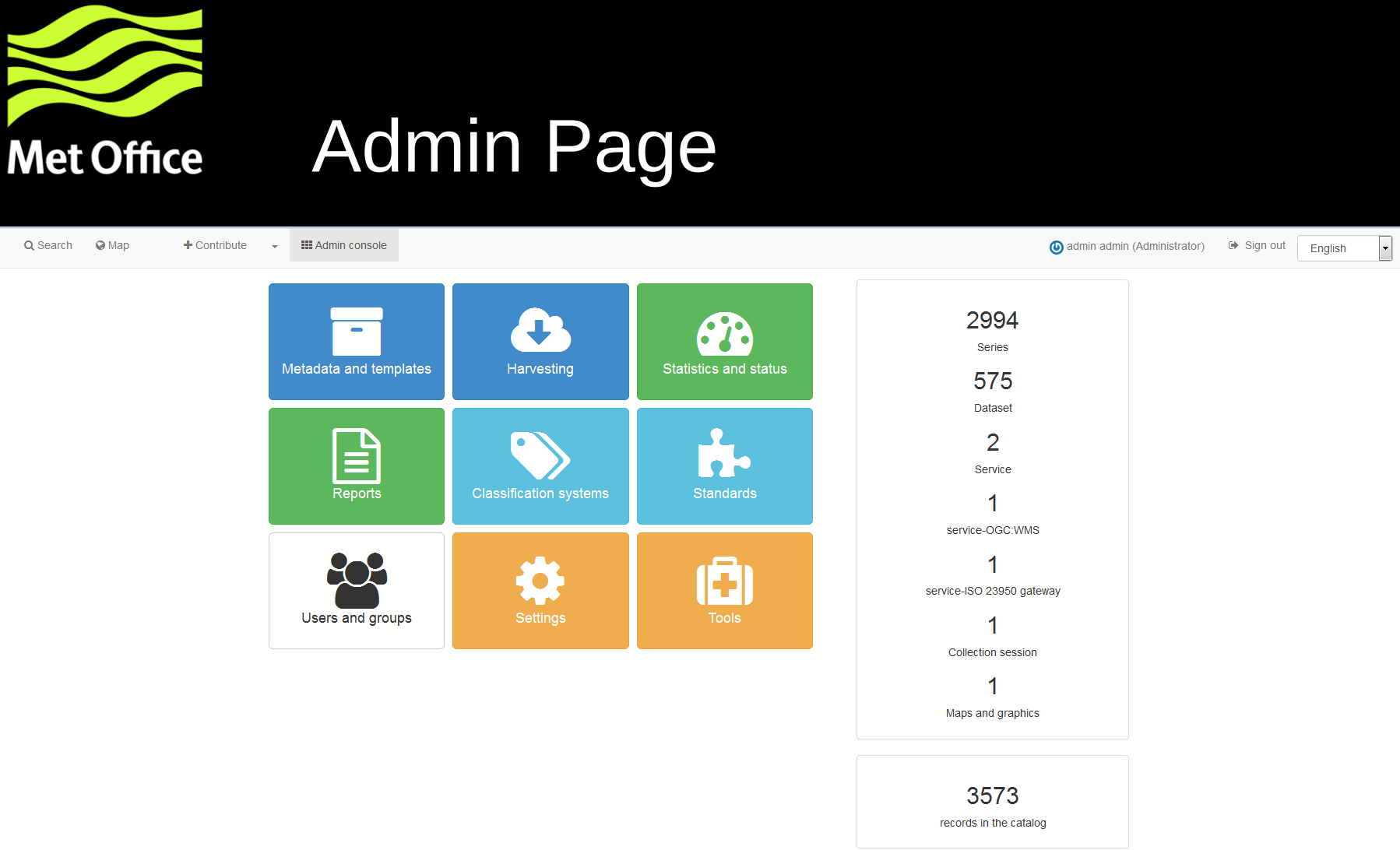
Download metadata

Contact	Point of contact **RSMC-Medium-Range-Forecasting ECMWF Reading - ECMWF** Data Services Shinfield Park, READING, RG2 9AX, UNITED KINGDOM Call T+44 1189869450

Metadata Options (for Editors)



Admin Page


Search
Map
Contribute
Admin console
admin admin (Administrator)
Sign out
English
Metadata and templates
Harvesting
Statistics and status
Reports
Classification systems
Standards
Users and groups
Settings
Tools
2994
Series
575
Dataset
2
Service
1
service-OGC:WMS
1
service-ISO 23950 gateway
1
Collection session
1
Maps and graphics
3573
records in the catalog

Groups, Roles & Privileges

The catalogue uses the concept of Users, Groups and User Profiles.

A User can be part of one or more Groups.

A User has a Role in a Group.

The Administrator Role is not related to a Group.

The combination of Role and Group defines what tasks the User can perform on the system or on specific metadata records.

Users can have different roles in different groups. A role defines what tasks the user can perform.

Roles are hierarchical and based on inheritance. This means that a user with an Editor profile can create and modify new metadata records, but can also use all functions a Registered user can use.

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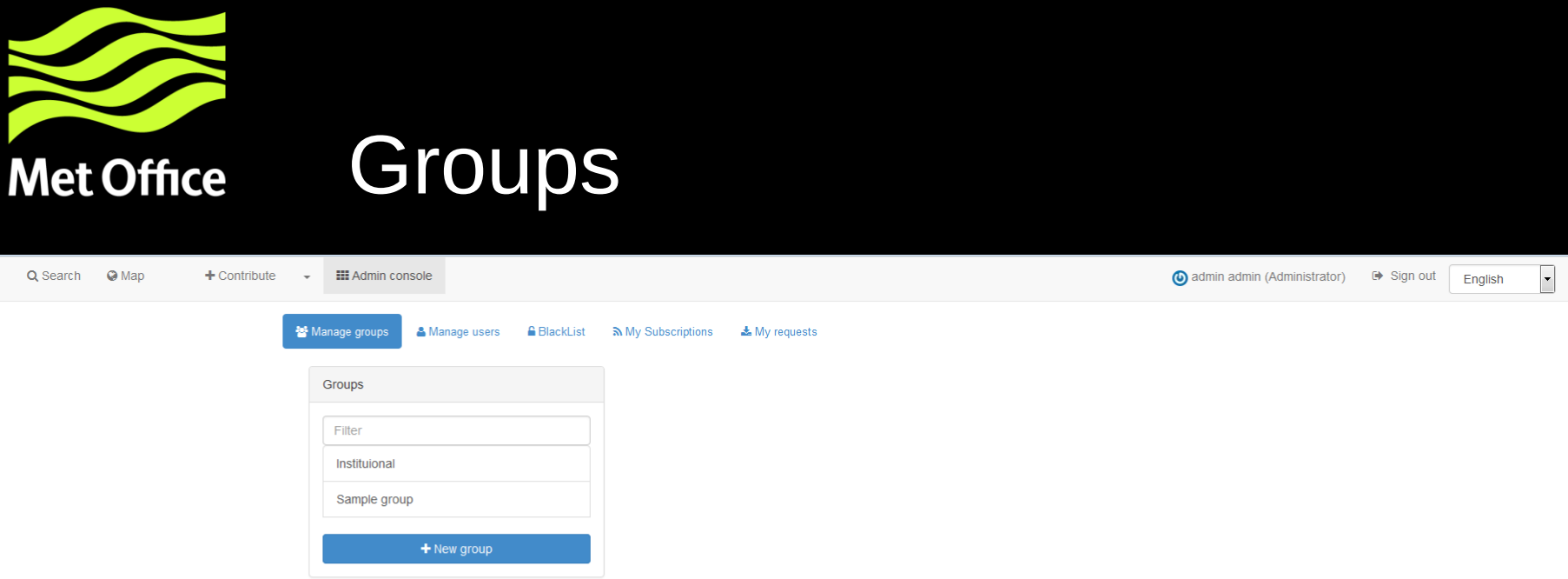
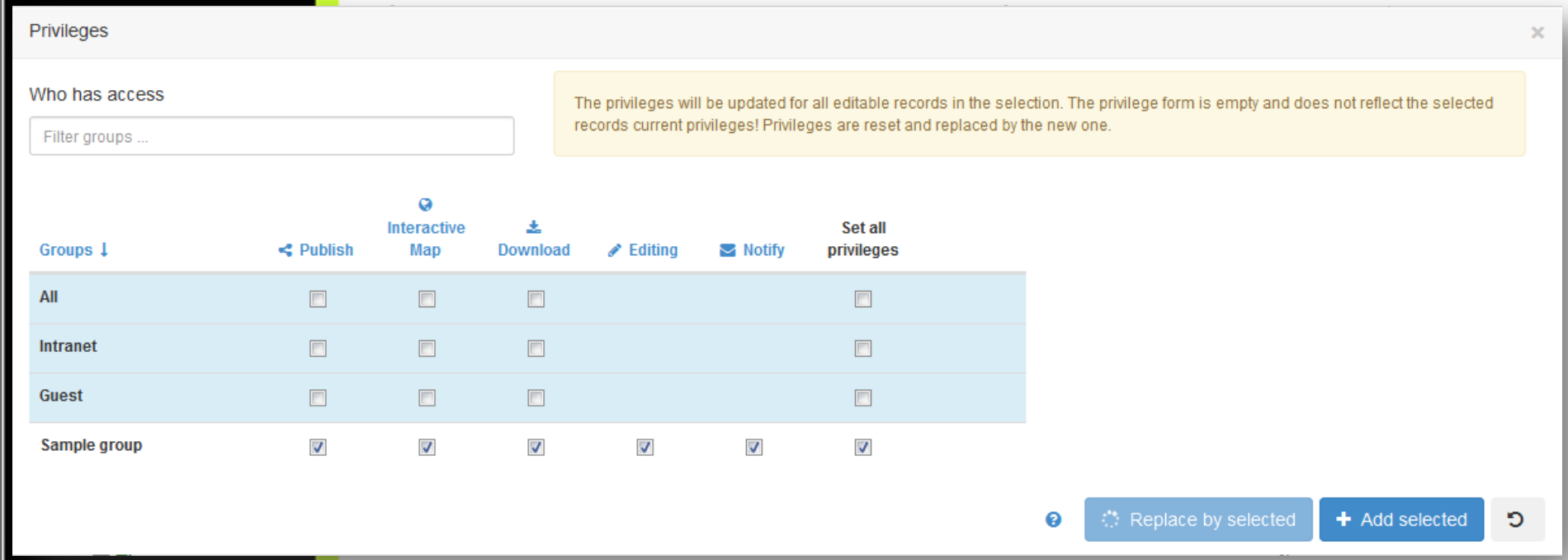
Groups


Search
Map
Contribute
Admin console
admin admin (Administrator)
Sign out
English
Manage groups
Manage users
BlackList
My Subscriptions
My requests
Groups
Filter
Instituional
Sample group
New group

Privileges



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Roles

Administrator Profile

User Administrator Profile

Content Reviewer Profile

Editor Profile

Registered User Profile

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Administrator Profile

The Administrator has special privileges that give access to all available functions.

These include:

- Full rights for creating new groups and new users
- Rights to change users/groups profiles
- Full rights for creating/editing/deleting new/old metadata
- Perform system administration and configuration tasks.

User Administrator Profile

The User Administrator is the administrator of his/her own group with the following privileges:

- Full rights on creating new users within the own group
- Rights to change users profiles within the own group
- Full rights on creating/editing/ deleting new/old metadata within the own group

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Content Reviewer Profile

The content reviewer is the only person allowed to give final clearance on the metadata publication on the Intranet and/or on the Internet:

- Rights on reviewing metadata content within the own group and authorising its publication

Editor Profile

The editor works on metadata with following privileges:

- Full rights on creating/editing/ deleting new/old metadata within the own group

Registered User Profile

The Registered User has more access privileges than non-authenticated Guest users:

- Right to download protected metadata (not data – yet)

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Blacklisting

Search Map Contribute Admin console Dom Woollatt (Administrator) Sign out English

Manage groups Manage users BlackList My Subscriptions My requests

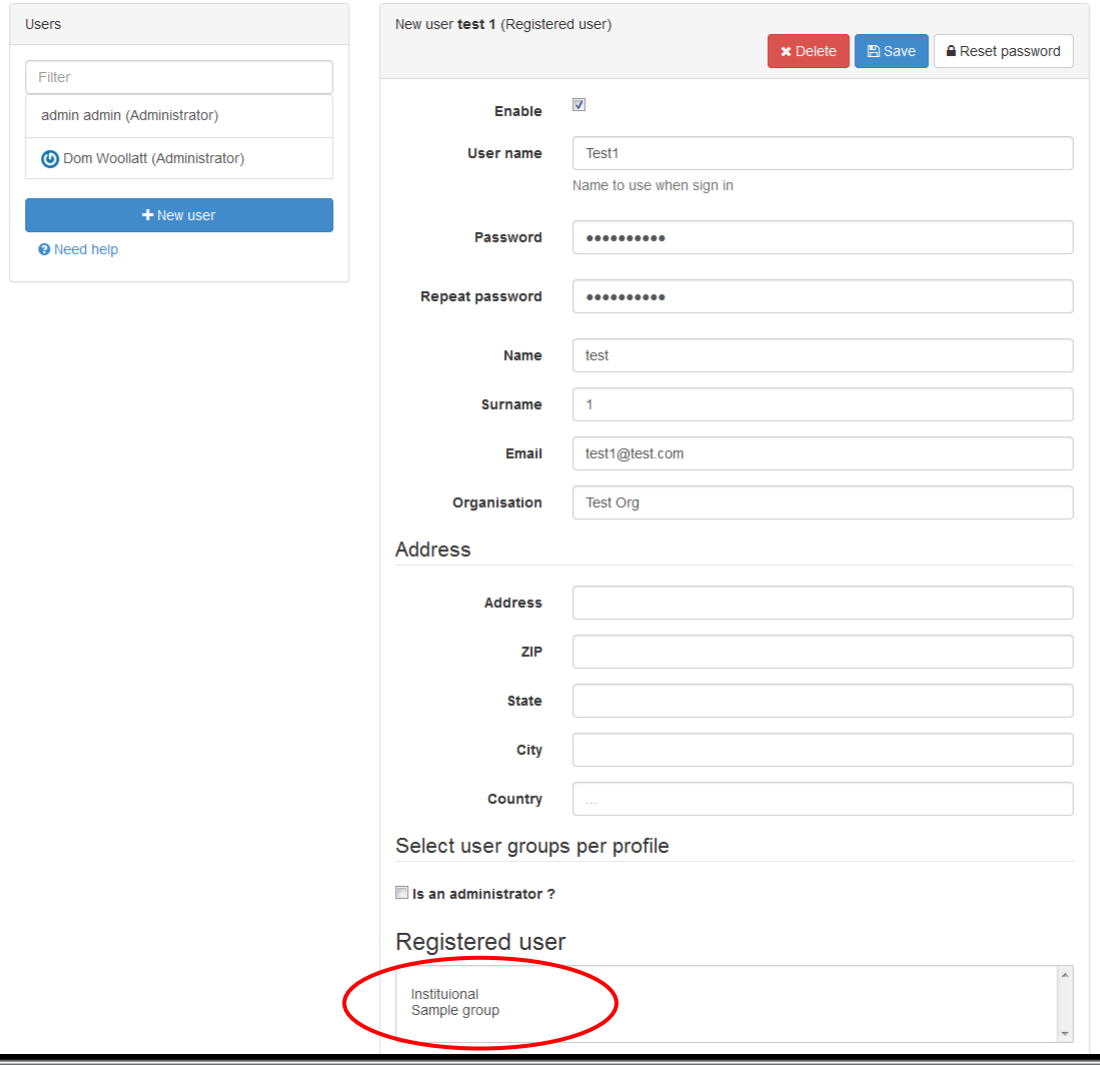
BlackList

Show 10 entries Search:

User	Nb Warn	Vol Warn	Nb Blacklist	Vol Blacklist	Status
No data available in table					
User	Nb Warn	Vol Warn	Nb Blacklist	Vol Blacklist	Status

Showing 0 to 0 of 0 entries First Previous Next Last

Users


Users
Filter
admin admin (Administrator)
Dom Woollatt (Administrator)
+ New user
Need help
New user test 1 (Registered user)
Delete
Save
Reset password
Enable
User name
Test1
Name to use when sign in
Password
Repeat password
Name
test
Surname
1
Email
test1@test.com
Organisation
Test Org
Address
Address
ZIP
State
City
Country
Select user groups per profile
Is an administrator ?
Registered user
Instituional
Sample group

Managing categories

• Categories separate metadata into groups, without changing the actual content of the metadata.

• Categories can be used to filter a search result, or limit the output of a custom csw endpoint.

• A category needs to be assigned to a metadata document

• Available categories can be modified

Note: If you add or modify categories, they may not obtain an appropriate icon. These icons are managed in /catalog/style/gn_icons.less. In this file category-classes are mapped to font-awesome variables that map to a certain font-awesome icon (http://fontawesome.io)

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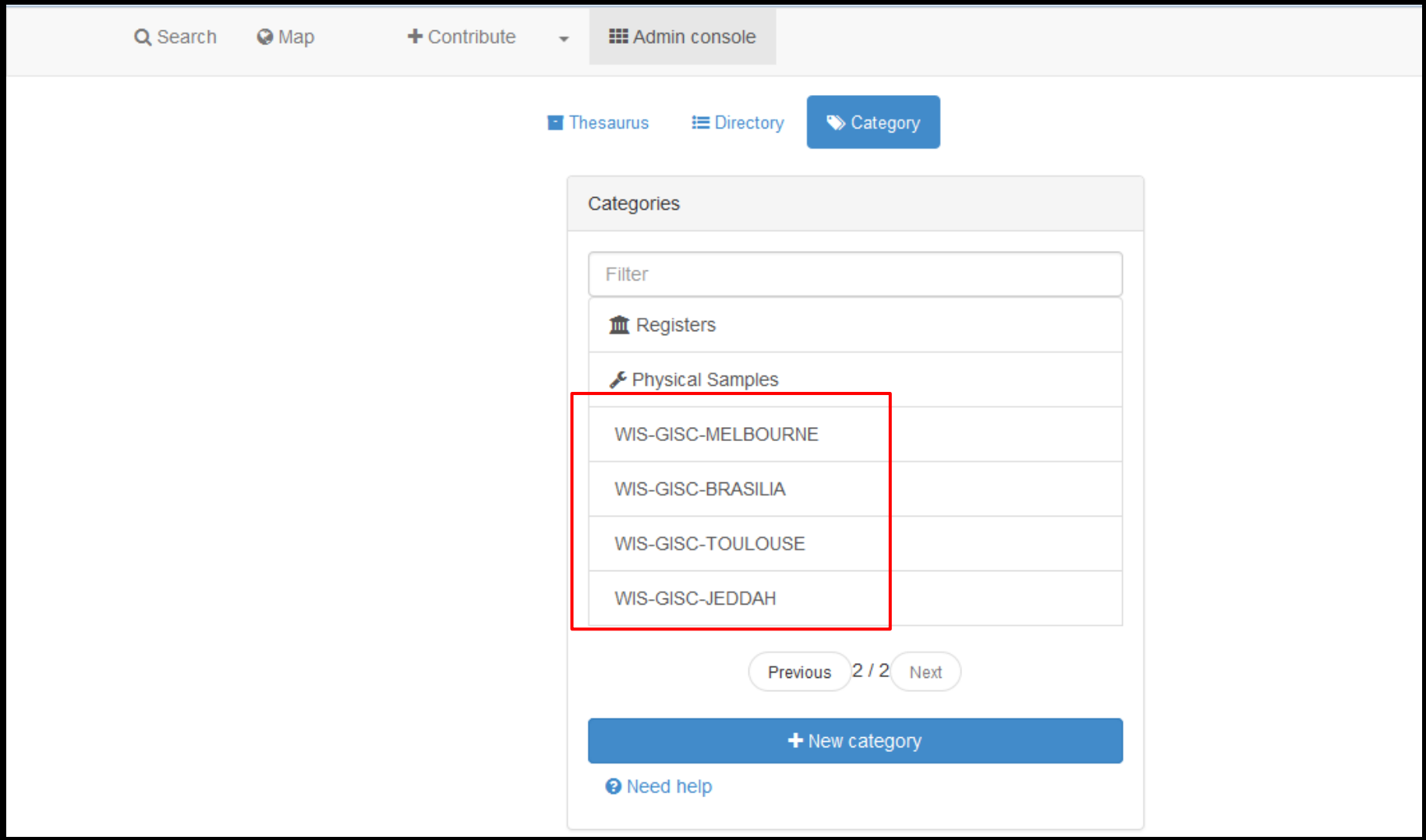
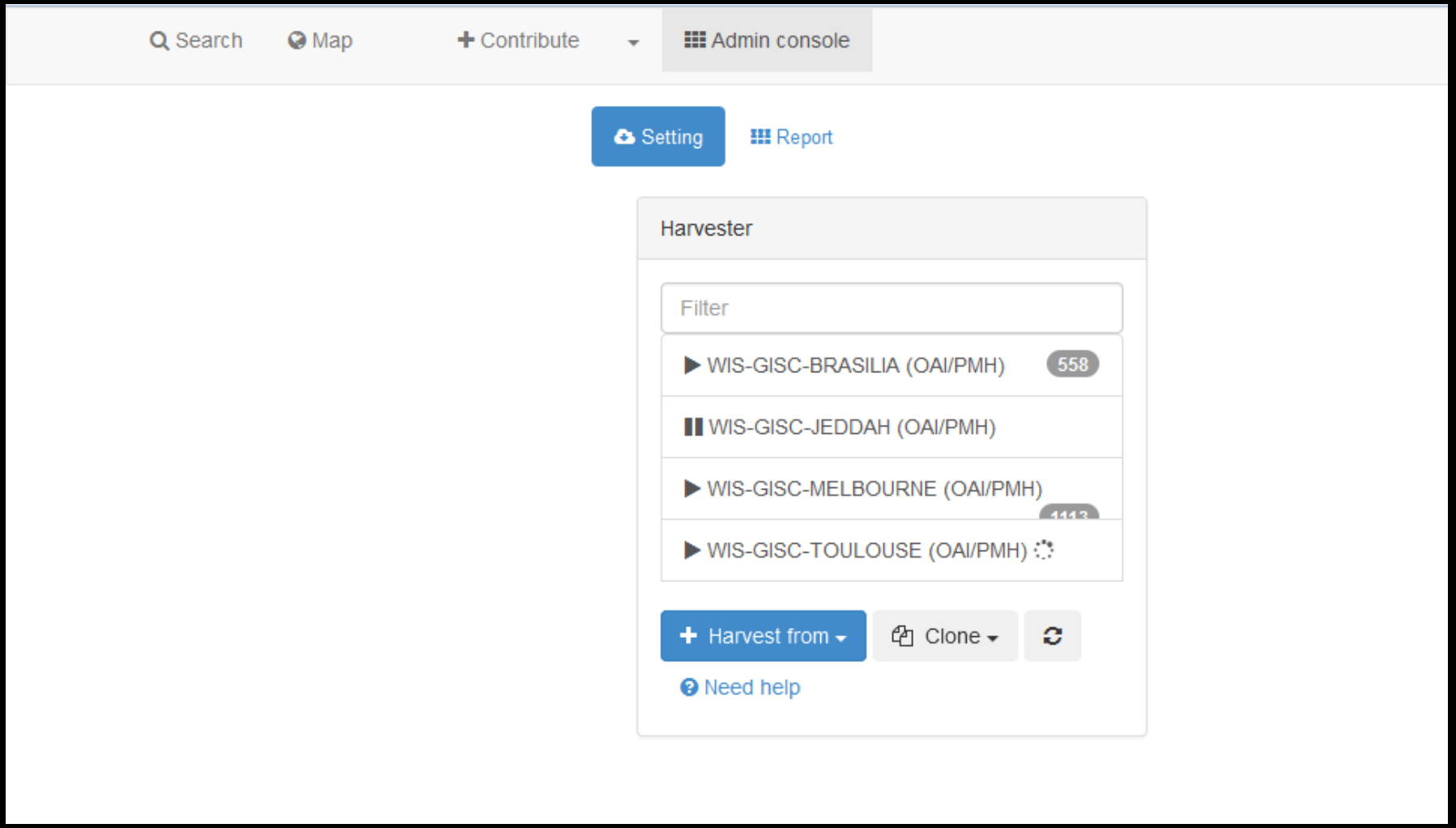
Categories

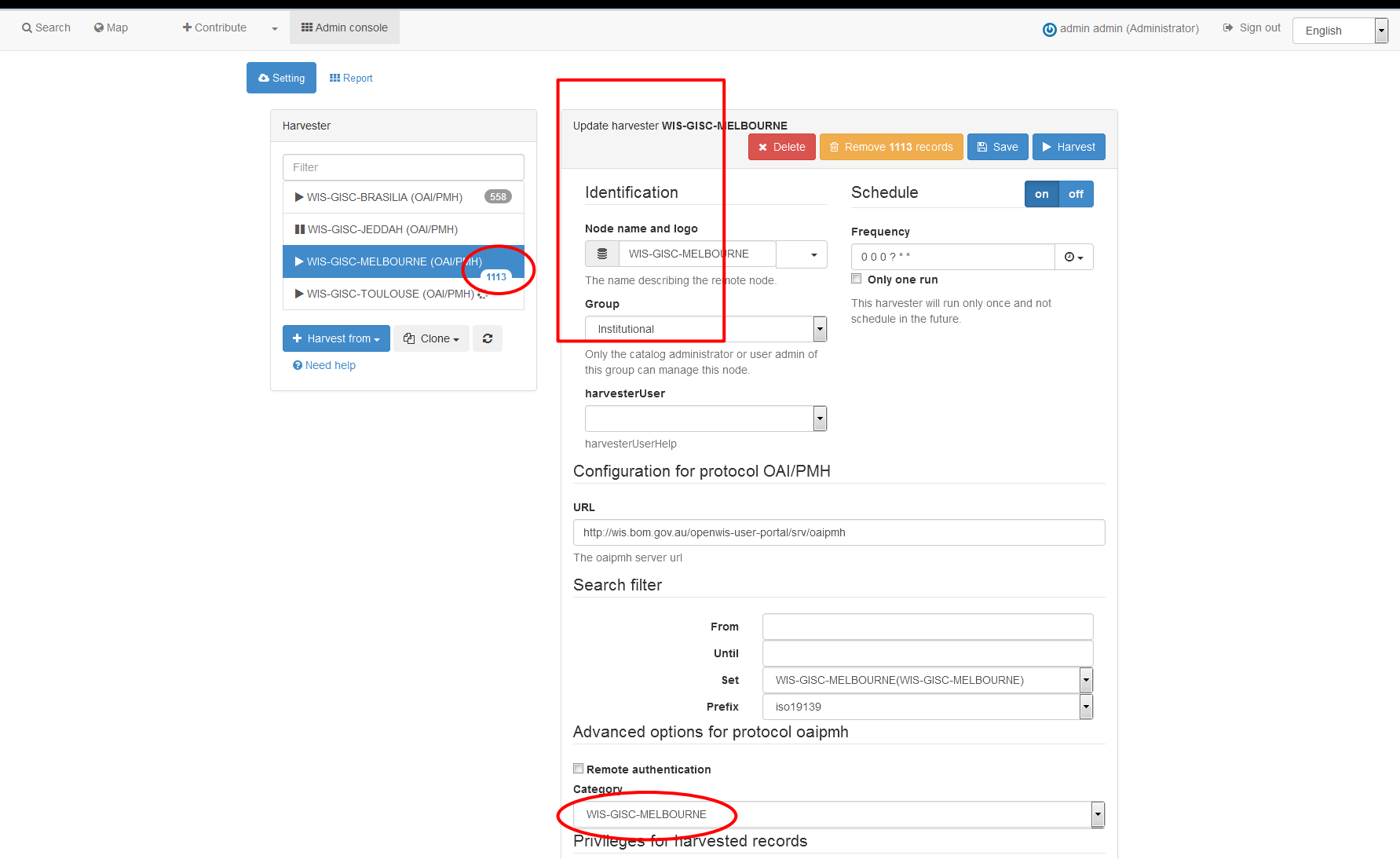

Search
Map
Contribute
Admin console
Thesaurus
Directory
Category
Categories
Filter
Registers
Physical Samples
WIS-GISC-MELBOURNE
WIS-GISC-BRASILIA
WIS-GISC-TOULOUSE
WIS-GISC-JEDDAH
Previous
2 / 2
Next
New category
Need help

Harvesting

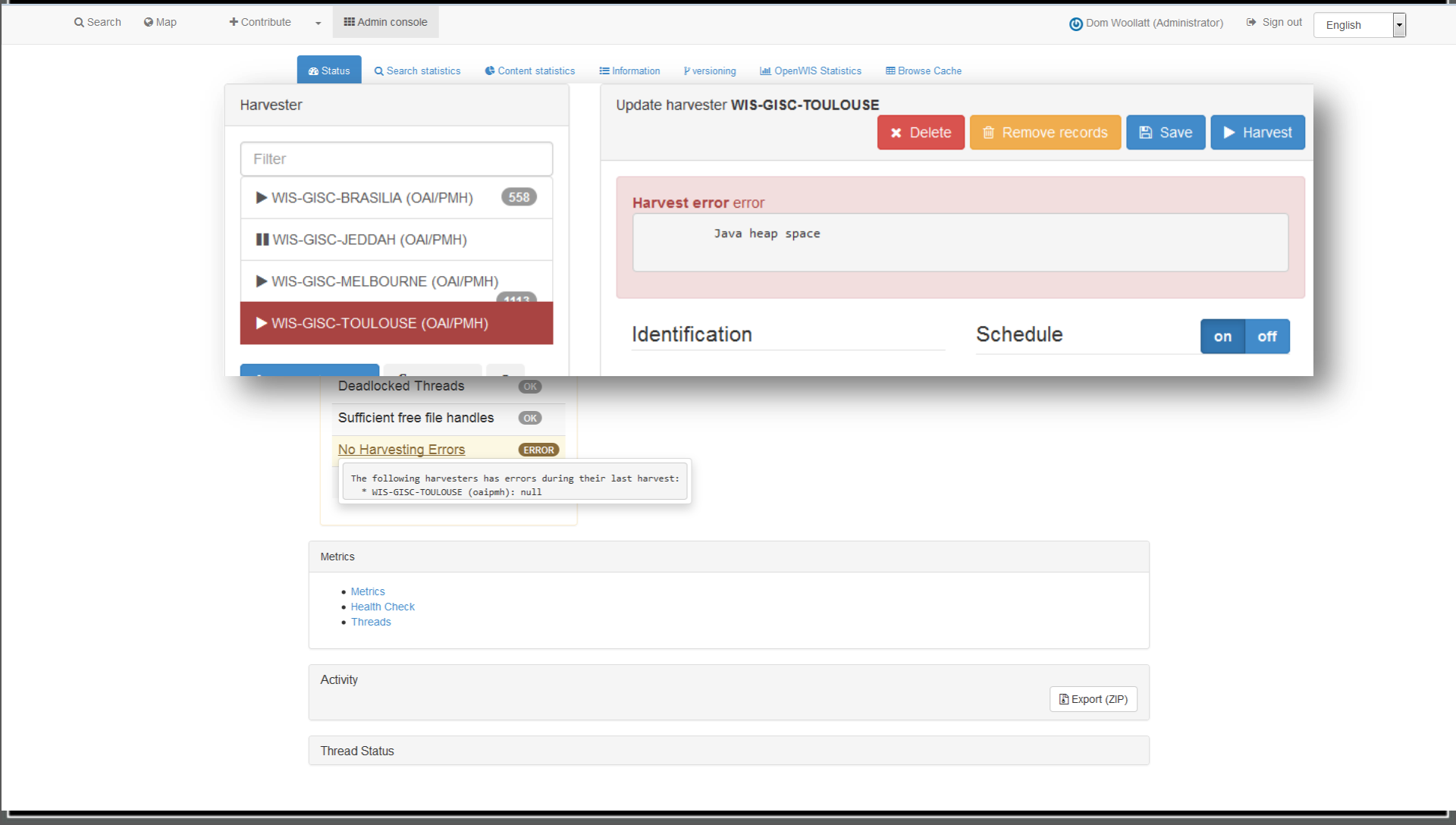


© Crown copyright

Harvesting cont...



Harvesting cont...



Metadata - Standards

Search | Map | + Contribute | Admin console | admin admin (Administrator) | Sign out | English

Metadata & templates | Formatter | Manage Subscriptions | Product Metadata | Schematron | Metadata Identifier templates

Load samples and templates for metadata standards

Standards available

0 selected

☐ Geographic information -- Metadata (iso19139)

ISO 19115 defines the schema required for describing geographic information and services by means of metadata. It provides information about the identification, the extent, the quality, the spatial and temporal aspects, the content, the spatial reference, the portrayal, distribution, and other properties of digital geographic data and services. ISO 19115 is applicable to: - the cataloguing of all types of resources, clearinghouse activities, and the full description of datasets and services; - geographic services, geographic datasets, dataset series, and individual geographic features and feature properties. ISO 19115 defines: - mandatory and conditional metadata sections, metadata entities, and metadata elements; - the minimum set of metadata required to serve most metadata applications (data discovery, determining data fitness for use, data access, data transfer, and use of digital data and services); - optional metadata elements to allow for a more extensive standard description of resources, if required; - a method for extending metadata to fit specialized needs. Though ISO 19115 is applicable to digital data and services, its principles can be extended to many other types of resources such as maps, charts, and textual documents as well as non-geographic data. Certain conditional metadata elements might not apply to these other forms of data.

More information ...

☐ Dublin core (for CSW only) (csw-record)

☐ Dublin core (dublin-core)

More information ...

☐ Geographic information -- Methodology for feature cataloguing (iso19110)

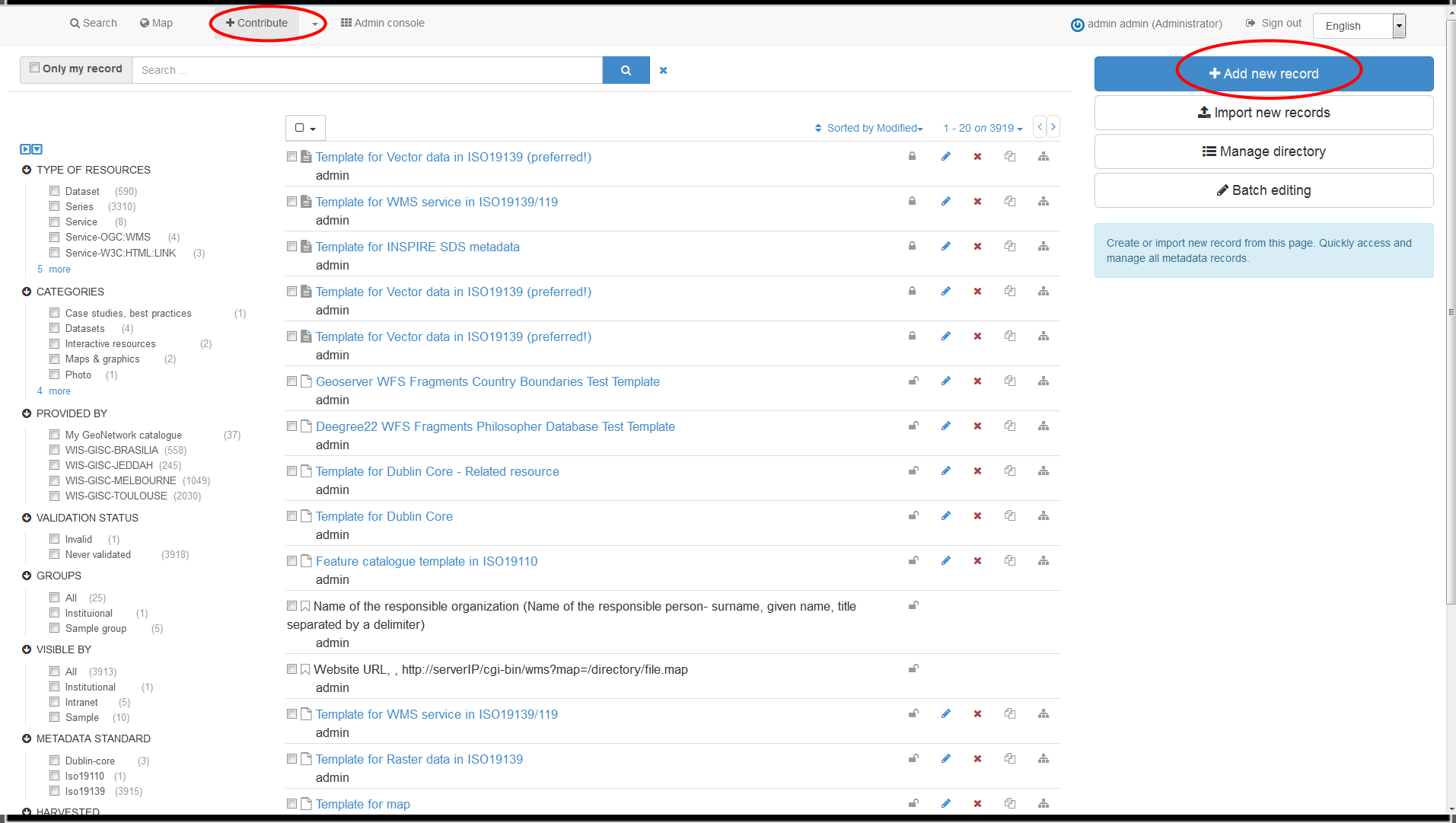
More information ...

Load templates for selected standards

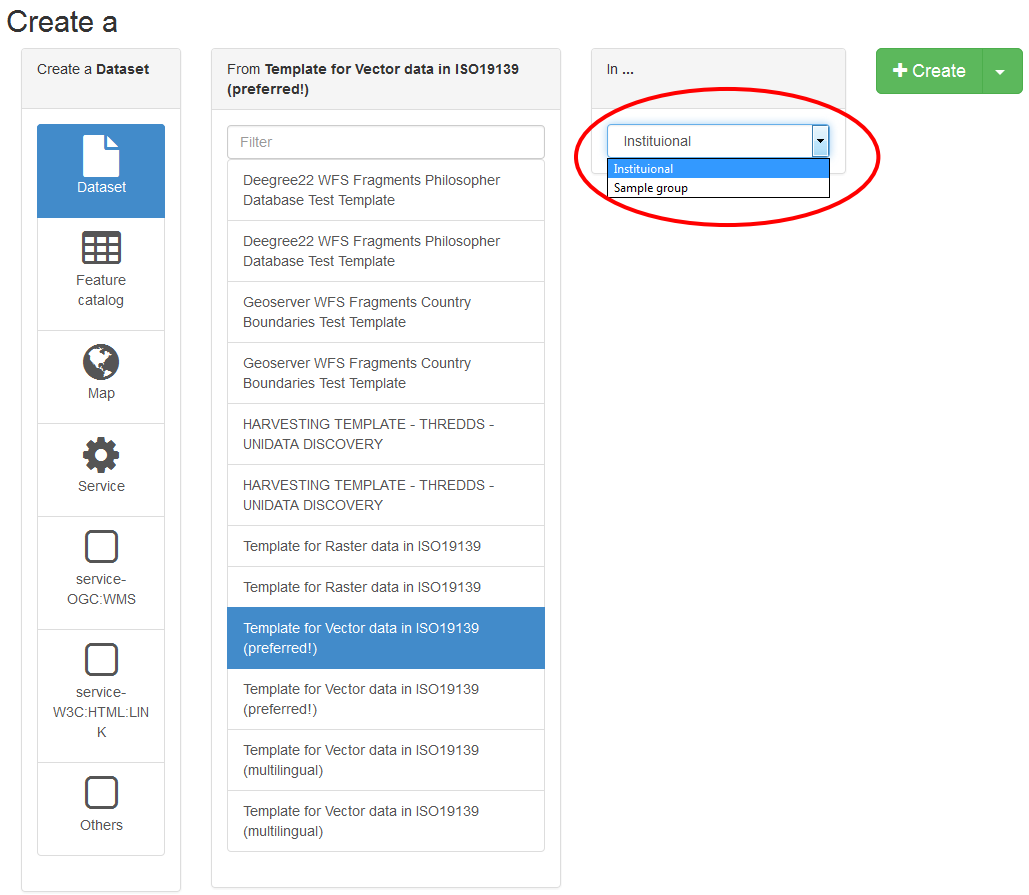
Load samples for selected standards

Need help

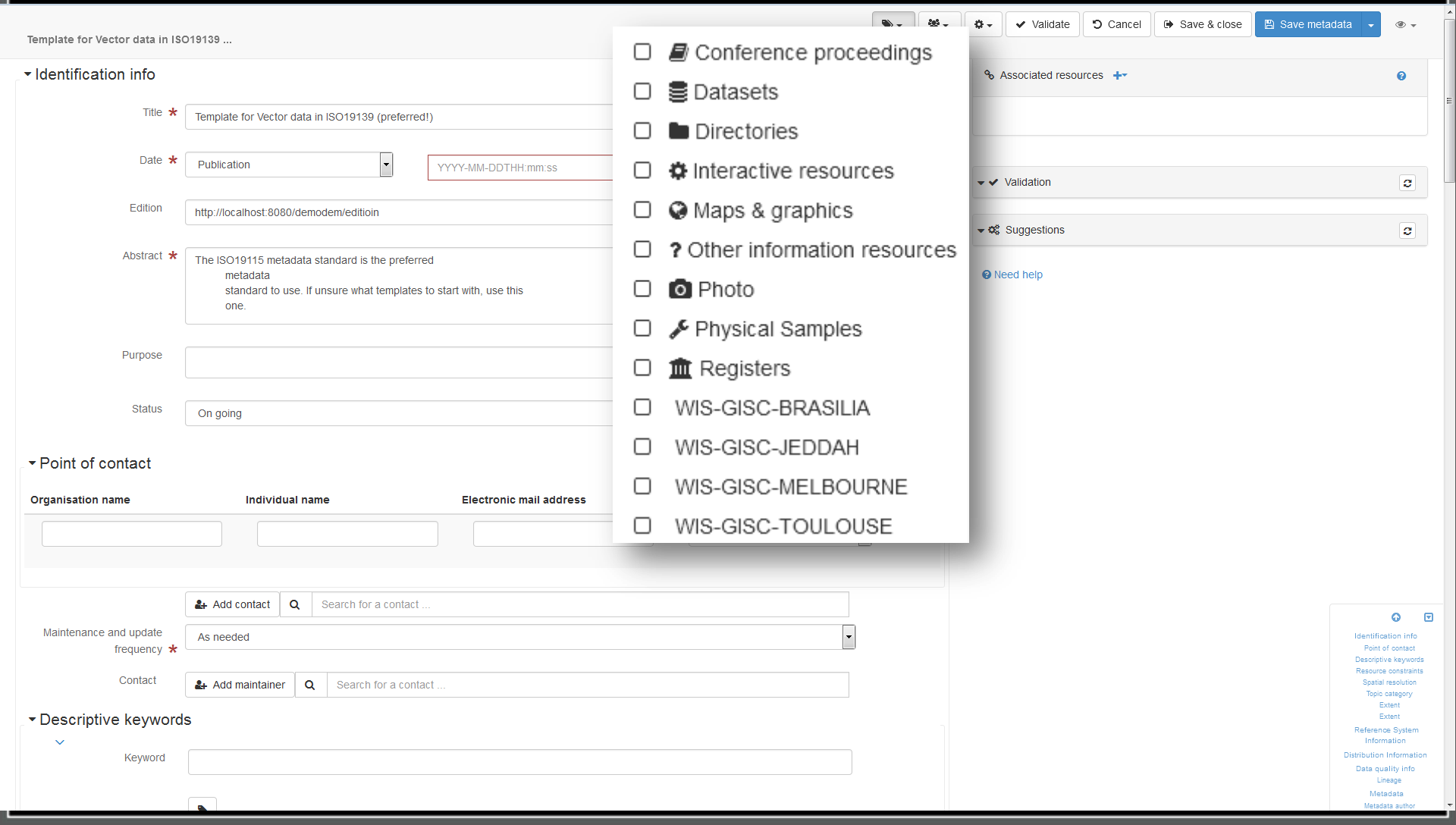
Adding Metadata



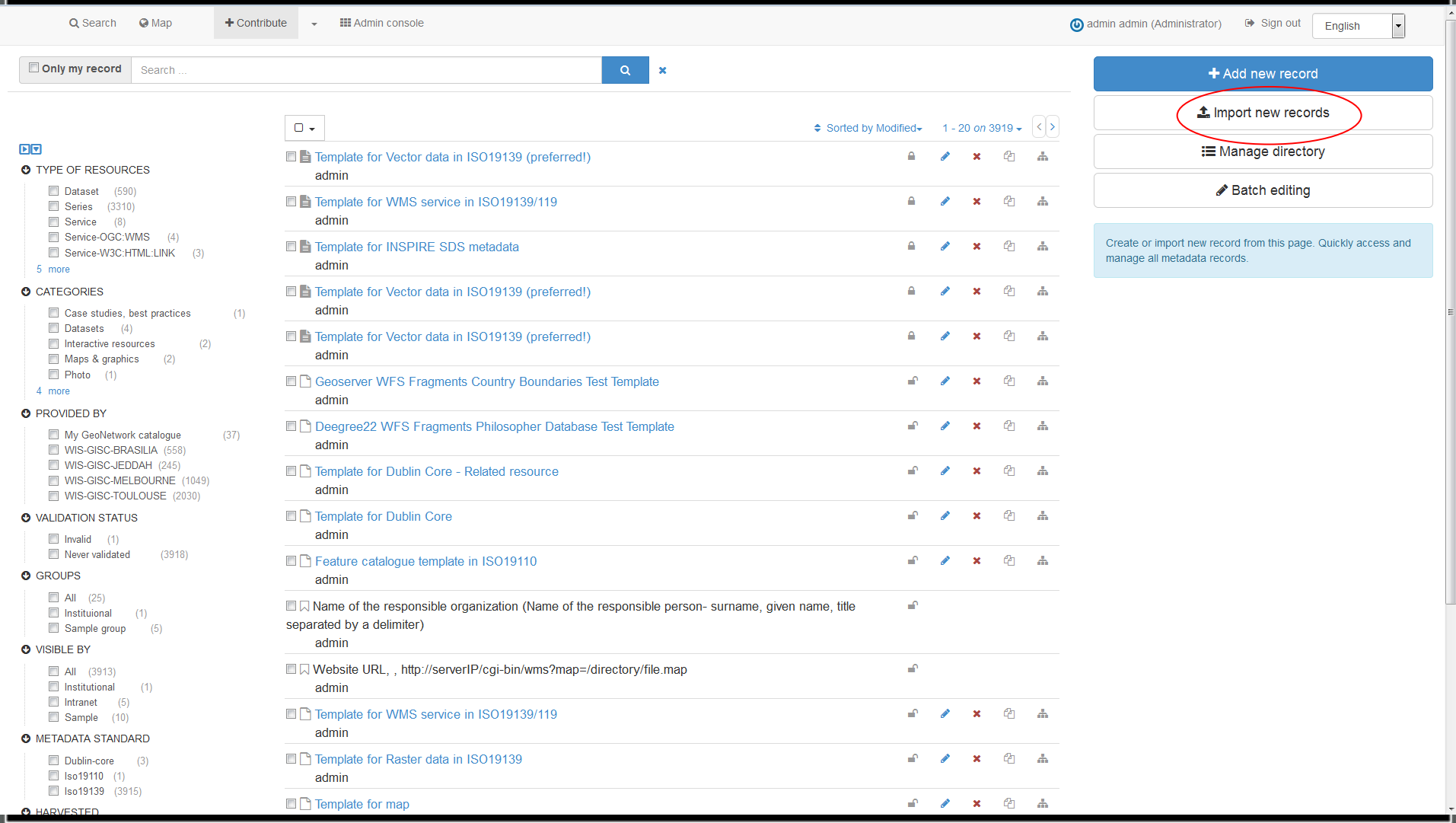
Adding Metadata cont…



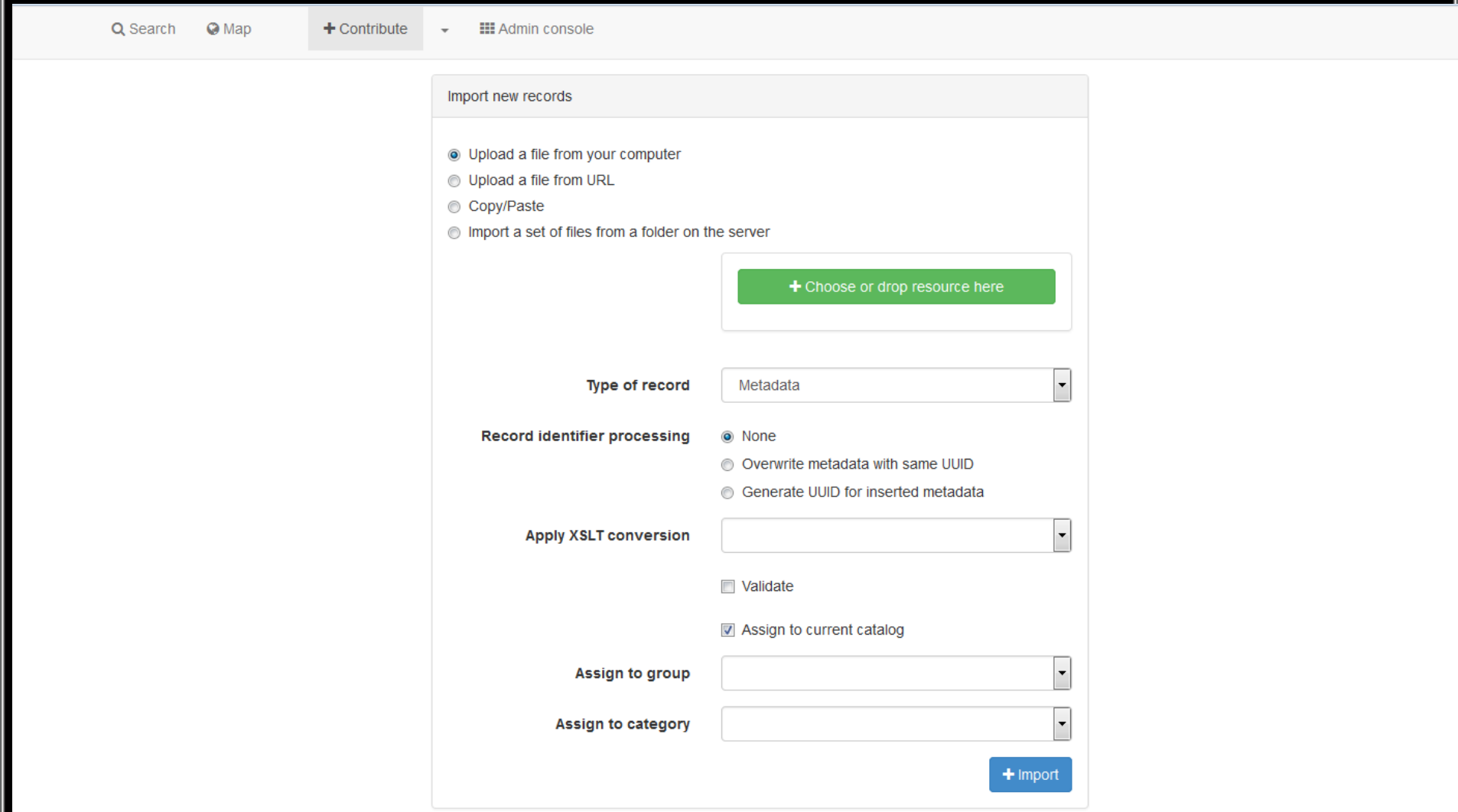
Adding Metadata cont…



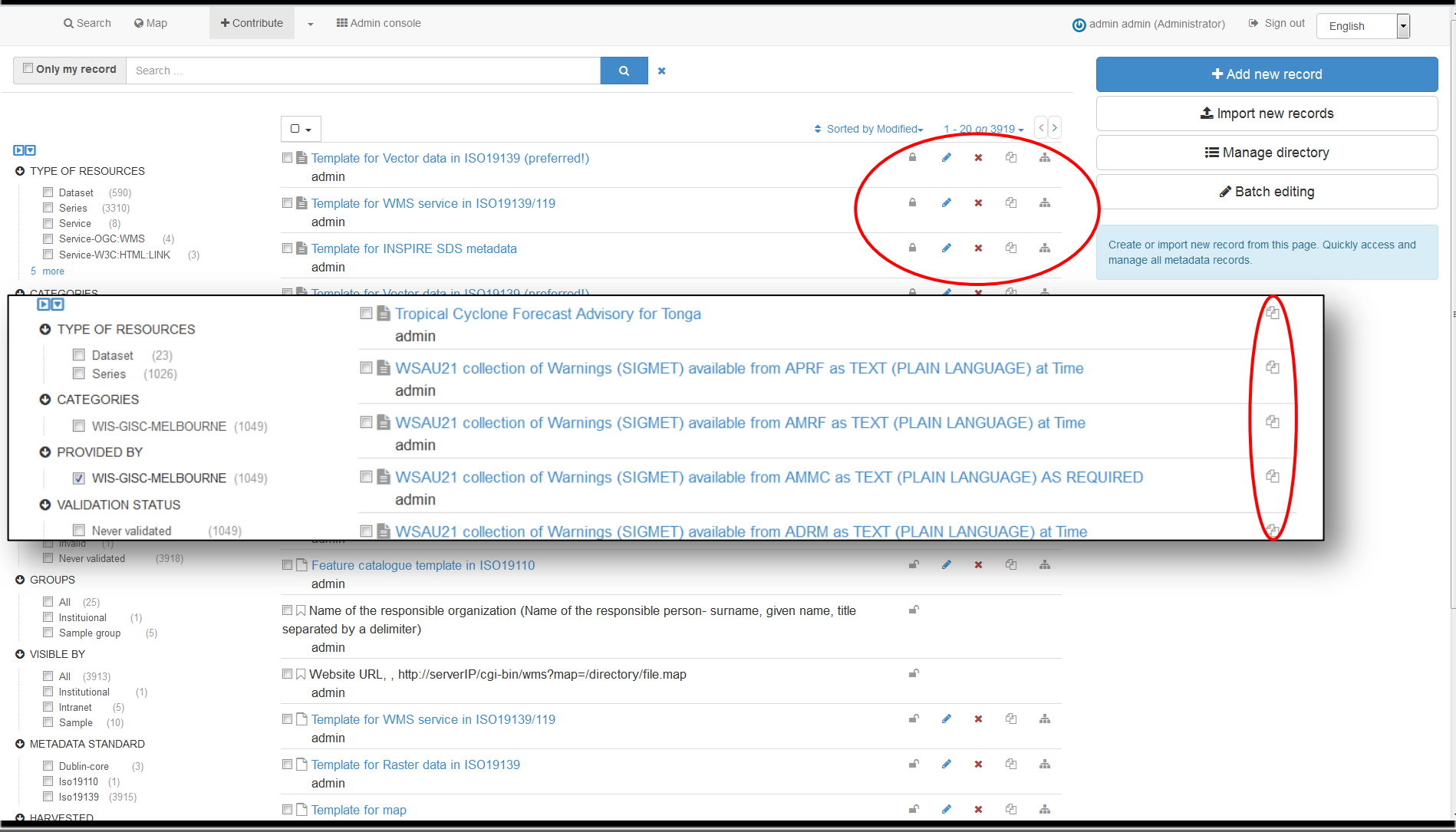
Importing Metadata



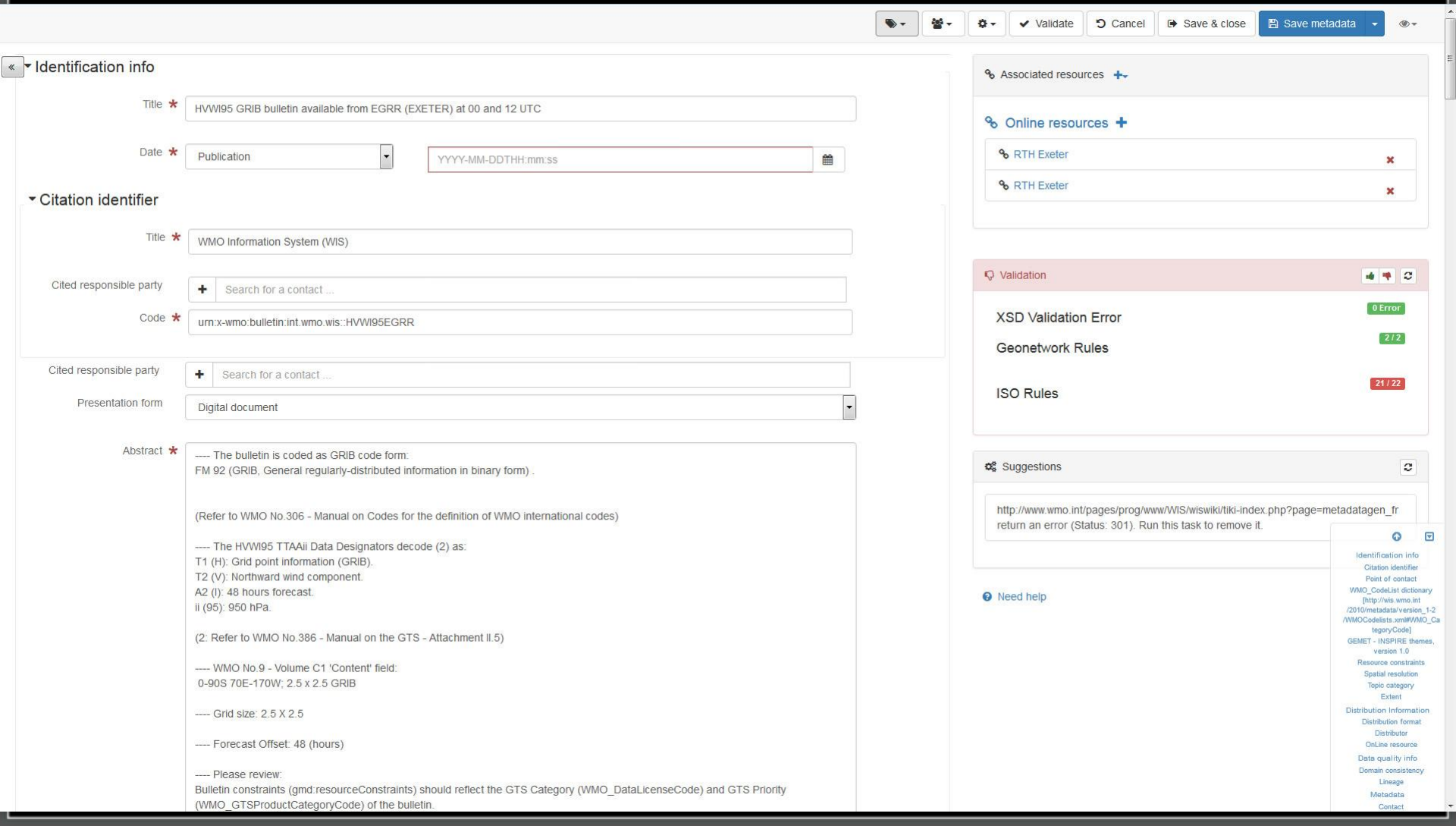
Importing Metadata cont…



Edit Metadata

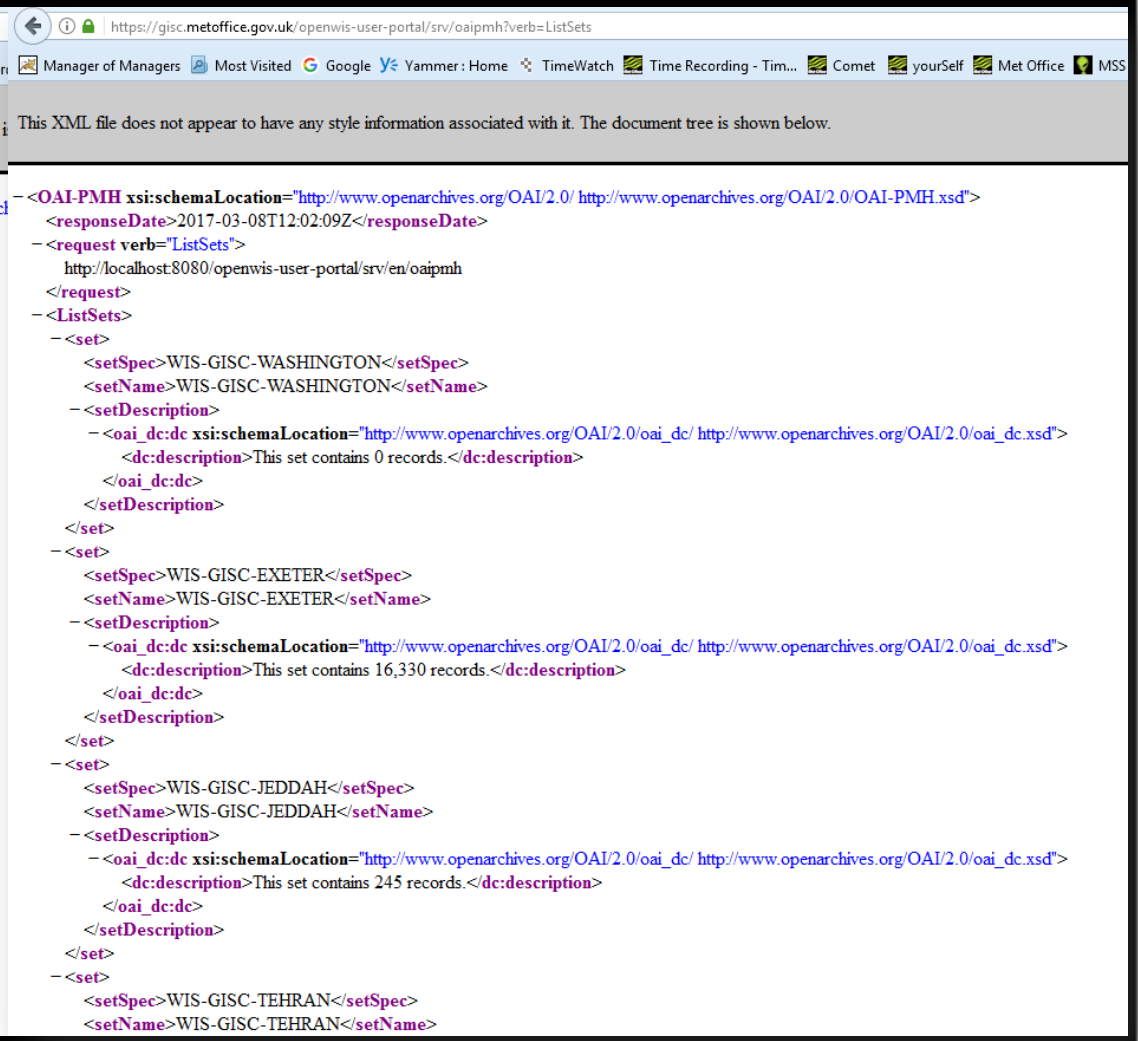


Edit Metadata cont…



OAIPMH

cgn-openwis.eurodyn.com/geonetwork/srv/eng/oaipmh?verb=ListSets
Manager of Managers
Most Visited
Google
Yammer : Home
TimeWatch
This XML file does not appear to have any style information associated with it. The document tree i
<OAI-PMH xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/ http://www.openarcl
<responseDate>2017-03-08T14:01:45Z</responseDate>
<request verb="ListSets">http://localhost:8080/geonetwork/srv/en/oaipmh</request>
<ListSets>
<set>
<setSpec>maps</setSpec>
<setName>Maps & graphics</setName>
</set>
<set>
<setSpec>datasets</setSpec>
<setName>Datasets</setName>
</set>
<set>
<setSpec>interactiveResources</setSpec>
<setName>Interactive resources</setName>
</set>
<set>
<setSpec>applications</setSpec>
<setName>Applications</setName>
</set>
<set>
<setSpec>caseStudies</setSpec>
<setName>Case studies, best practices</setName>
</set>
<set>
<setSpec>proceedings</setSpec>
<setName>Conference proceedings</setName>
</set>
<set>
<setSpec>photo</setSpec>
<setName>Photo</setName>
</set>
<set>
<setSpec>audioVideo</setSpec>


https://gisc.metoffice.gov.uk/openwis-user-portal/srv/oaipmh?verb=ListSets
Manager of Managers
Most Visited
Google
Yammer : Home
TimeWatch
Time Recording - Tim...
Comet
yourSelf
Met Office
MSS
This XML file does not appear to have any style information associated with it. The document tree is shown below.
<OAI-PMH xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/ http://www.openarchives.org/OAI/2.0/OAI-PMH.xsd">
<responseDate>2017-03-08T12:02:09Z</responseDate>
<request verb="ListSets">
http://localhost:8080/openwis-user-portal/srv/en/oaipmh
</request>
<ListSets>
<set>
<setSpec>WIS-GISC-WASHINGTON</setSpec>
<setName>WIS-GISC-WASHINGTON</setName>
<setDescription>
<oai_dc:dc xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/oai_dc/ http://www.openarchives.org/OAI/2.0/oai_dc.xsd">
<dc:description>This set contains 0 records.</dc:description>
</oai_dc:dc>
</setDescription>
</set>
<set>
<setSpec>WIS-GISC-EXETER</setSpec>
<setName>WIS-GISC-EXETER</setName>
<setDescription>
<oai_dc:dc xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/oai_dc/ http://www.openarchives.org/OAI/2.0/oai_dc.xsd">
<dc:description>This set contains 16,330 records.</dc:description>
</oai_dc:dc>
</setDescription>
</set>
<set>
<setSpec>WIS-GISC-JEDDAH</setSpec>
<setName>WIS-GISC-JEDDAH</setName>
<setDescription>
<oai_dc:dc xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/oai_dc/ http://www.openarchives.org/OAI/2.0/oai_dc.xsd">
<dc:description>This set contains 245 records.</dc:description>
</oai_dc:dc>
</setDescription>
</set>
<set>
<setSpec>WIS-GISC-TEHRAN</setSpec>
<setName>WIS-GISC-TEHRAN</setName>

Life Cycle

Metadata records have a lifecycle that typically goes through one or more states. For example, when a record is:

- created and edited by an Editor user it is in the Draft state.
- reviewed by a Content Reviewer user it would typically be in a Submitted state.
- completed and corrected by the Content Reviewer it would be in the Approved state and may be made available for casual search and harvest by assigning privileges to the catalog All group.
- superseded or replaced and the state would be Retired.

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The catalog has (an extensible) set of states that a metadata record can have:

- Unknown - this is the default state - nothing is known about the status of the metadata record
- Draft - the record is under construction or being edited.
- Submitted - the record has been submitted for approval to a content review.
- Approved - the content reviewer has reviewed and approved the metadata record
- Rejected - the content reviewer has reviewed and rejected the metadata record
- Retired - the record has been retired

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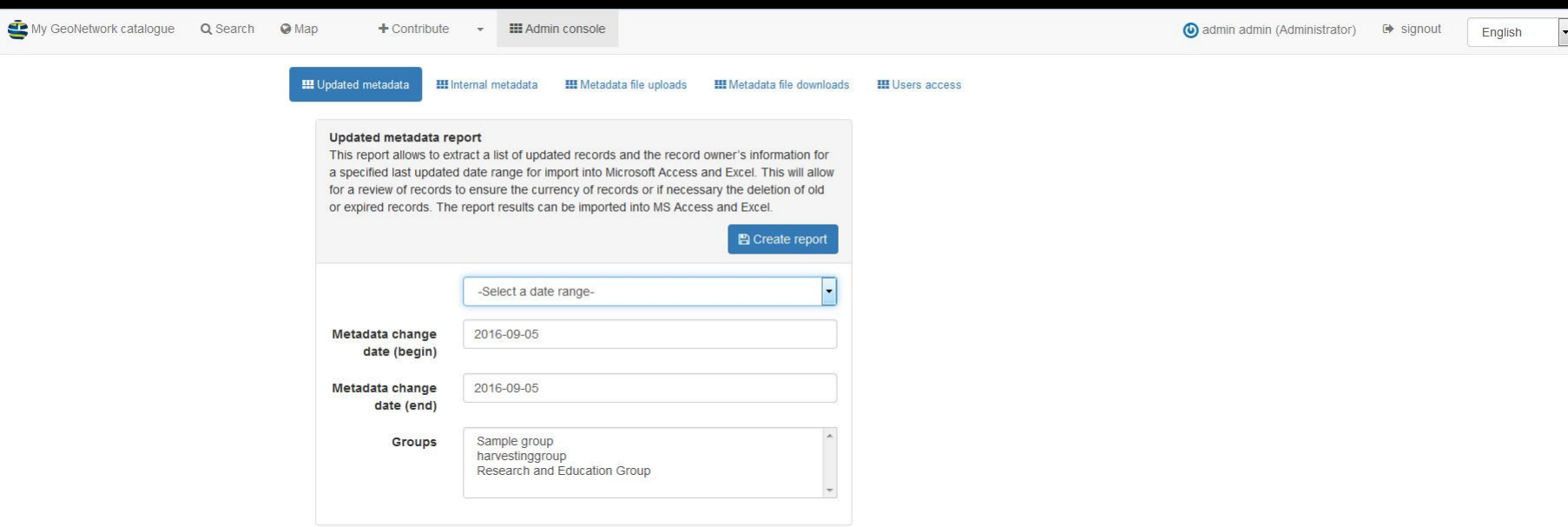
Reports


My GeoNetwork catalogue
Search
Map
Contribute
Admin console
admin admin (Administrator)
signout
English
Updated metadata
Internal metadata
Metadata file uploads
Metadata file downloads
Users access
Updated metadata report
This report allows to extract a list of updated records and the record owner's information for a specified last updated date range for import into Microsoft Access and Excel. This will allow for a review of records to ensure the currency of records or if necessary the deletion of old or expired records. The report results can be imported into MS Access and Excel.
Create report
-Select a date range-
Metadata change date (begin)
2016-09-05
Metadata change date (end)
2016-09-05
Groups
Sample group
harvestinggroup
Research and Education Group

Status / Statistics

Search | Map | + Contribute | Admin console | admin admin (Administrator) | Sign out | English

Status | Search statistics | Content statistics | Information | versioning | OpenWIS Statistics | Browse Cache

Critical System Checks

Csw GetCapabilities	OK
Database Connection	OK
Lucene Index	OK

Non-critical System Checks

Available connections in database	OK
Deadlocked Threads	OK
Sufficient free file handles	OK
No Harvesting Errors	OK
Metadata Index Errors	OK

Metrics

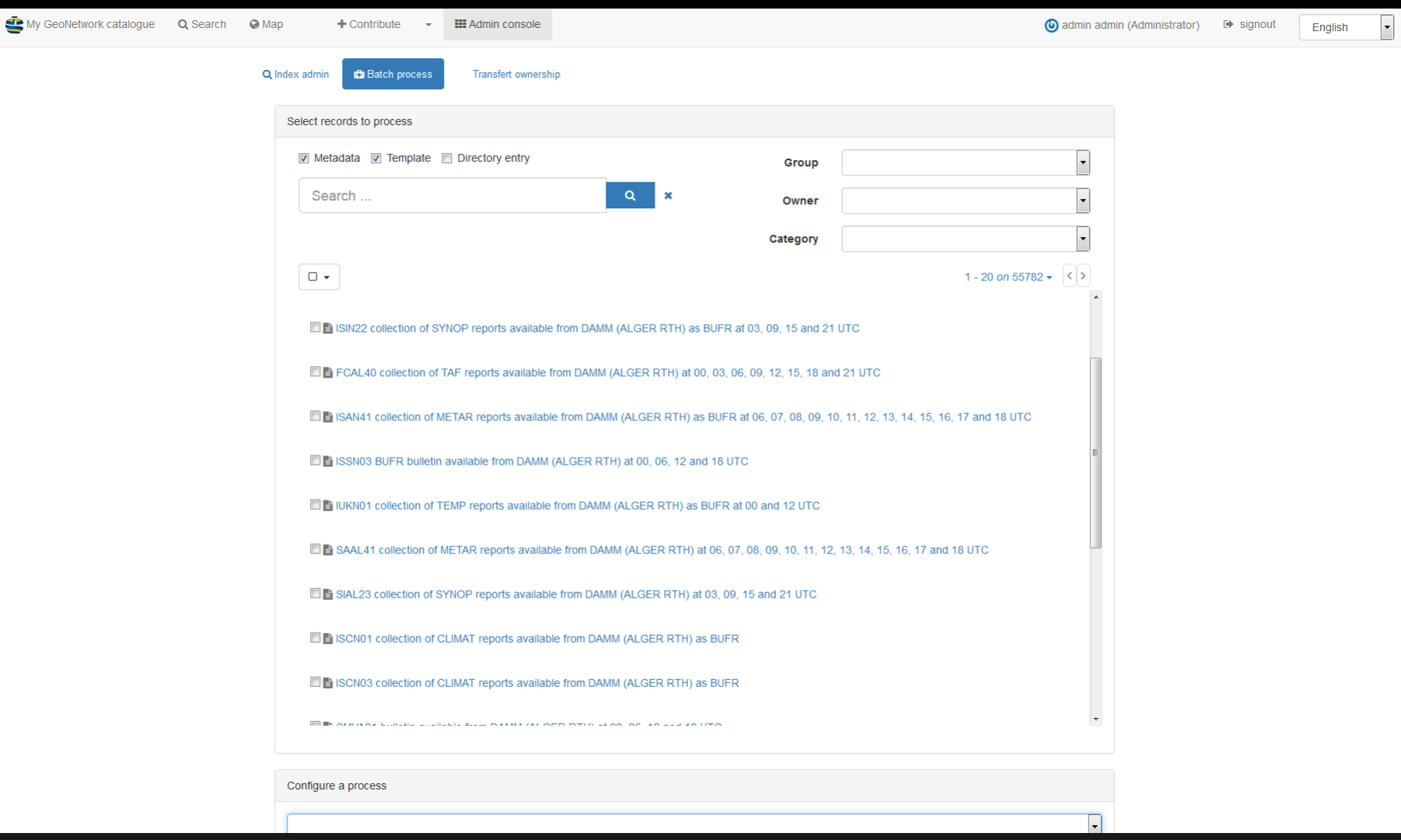
- Metrics
- Health Check
- Threads

Activity

Export (ZIP)

Thread Status

Tools - Batch Process



What's Missing?

- GeoNetwork Documentation – out of date or missing
- Separate Portals for User and Admin
- Users
  - Class of Service
  - Favourites
- Data Policy/Group Management/Privileges – for Data.
- Groups
  - Global – True/False
- Alarms page- Recent Events/Global Reports/User Alarms
- Data Service – request monitoring, management , data ingestion
- Search
  - via Lat/Long
  - Abstract
  - Map search – intersection/overlaps/within/crosses
- Metadata – detailed harvest/synch reports/slow harvest– stop-gap metadata?
- Subscription – process/delivery

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Any other thoughts?

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