

Cataloguing in ACTRIS

Context of cataloguing in ACTRIS

Complete ACTRIS report on Cataloguing available at: <https://envriplus.manageprojects.com/projects/requirements/notebooks/470/pages/36/comments/389/attachments/606/download>

Summary of ACTRIS requirements for Cataloguing

Detailed requirements

Background

The ACTRIS Data Centre consists of three topical data repositories archiving the measurement data, which are all linked through the ACTRIS data portal to provide a single access point to all data. Hence, the ACTRIS Data Centre is founded on 3 topical data repositories:

- Near-surface aerosol and trace gas data are reported to **EBAS**
- Aerosol profile data are reported to the **EARLINET** Data base
 - **LIDAR** data (acronym for Light Detection And Ranging), which is a [remote sensing](#) technology that measures distance by illuminating a target with a [laser](#) and analyzing the reflected light.
- Cloud profile data are reported to the **CLOUDNET** data base

ACTRIS uses catalogues to store some events called 'check for boundaries'. ACTRIS has an alarm system that checks for boundaries. And those boundaries are stored in documents inside a catalogue. We have to take into account that there are not processing event, every time raw data arrives to the system, is processed. Therefore, is not need to store an event for that. ACTRIS has a catalogue for their data products. And for that catalogue ACTRIS is in the process to use a vocabulary. Currently, ACTRIS uses NETCDF/CF.

It is important to mention that the observing system (data and metadata) is linked to the instrumentation is used.

For managing the metadata, ACTRIS uses different software/repositories. For **Near-surface** component, ACTRIS uses SCI-Bus, whereas **EARLINET** uses PostgreSQL.

Input

ACTRIS provides facilities for editors/reviewers to correct metadata.

ACTRIS plans to use an automated harvesting to populate their catalogues.

Metadata is couple with the data. ACTRIS system does not accept data without metadata.

Outputs

ACTRIS uses The website [1] for data discovering. The website allows users to search data by using different variables, such as location, network, etc.

ACTRIS evaluates the accessibility of their catalogues by using two methods:

- By using the portal: The portal has a logging system from the website, and it provides different statistics (e.g. by country).
- By an internal access to the data centre for looking the data, the number of downloads, the log events. But this method is only accessible for the ACTRIS developers, it is not public method.

For freely reading the catalogues, again depends on the component. The **EARLINET** catalogue is free. However, **CLOUDNET** and **Near-surface** catalogues have a password protected.

For accessing to their catalogues by machine interfaces, ACTRIS provides access by a customized web service to do the integration between the nilu and the other two database (EBAS and **EARLINET**.)

ACTRIS need to be complied by Inspire and to Wis – WMO Information System (gateway to GEOS).

References:

1. <http://actris.nilu.no/>:

Formalities (who & when)

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