

Synda

29 avril 2015

Introduction

- Command line tool to interact with the ESGF archive
- Features
 - Discovery / Search
 - Download
 - Template based data management
 - Already downloaded data management
- Python / Sqlite based

Discovery / Search

- Explore facets using 'param' command
 - synda param realm
 - synda param model MPI
- List ESGF data using 'search' command
 - synda search CMIP5 -d
 - synda search mon tasmax -f
 - synda search CMIP5 va day -v

Download

- Daemon running in background
- Protocol Http or GridFtp
- Automatic X509 certificate renewal
- Download queue interaction
 - `synda install`
 - `synda remove`
 - `synda watch`
 - `synda queue`

Templates based data management

- Data requests details stored in templates

```
project=CMIP5
experiment=amip
model=IPSL-CM5A-LR CNRM-CM5
ensemble=r1i1p1
variable[atmos][3hr]=cltc zfull zhalf pfull
variable[atmos][mon]=clt hfls hfss
#
searchapi_host=esgf-node.ipsl.fr
distrib=true
protocol=http
local_path_format=treevar
local_path_product_format=merge
```

Already downloaded data management

- List local files
 - `synda list -f`
- Update datasets to new version
 - `synda upgrade`
- Remove datasets old versions
 - `synda autoremove`
- Show add / remove history
 - `synda history`

Resources

- Website
 - <https://github.com/Prodiguer/synda>
- Contact
 - sdipsl AT ipsl DOT jussieu DOT fr
 - jripsl AT ipsl DOT jussieu DOT fr

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