



Web processing services for climate model data

birdhouse

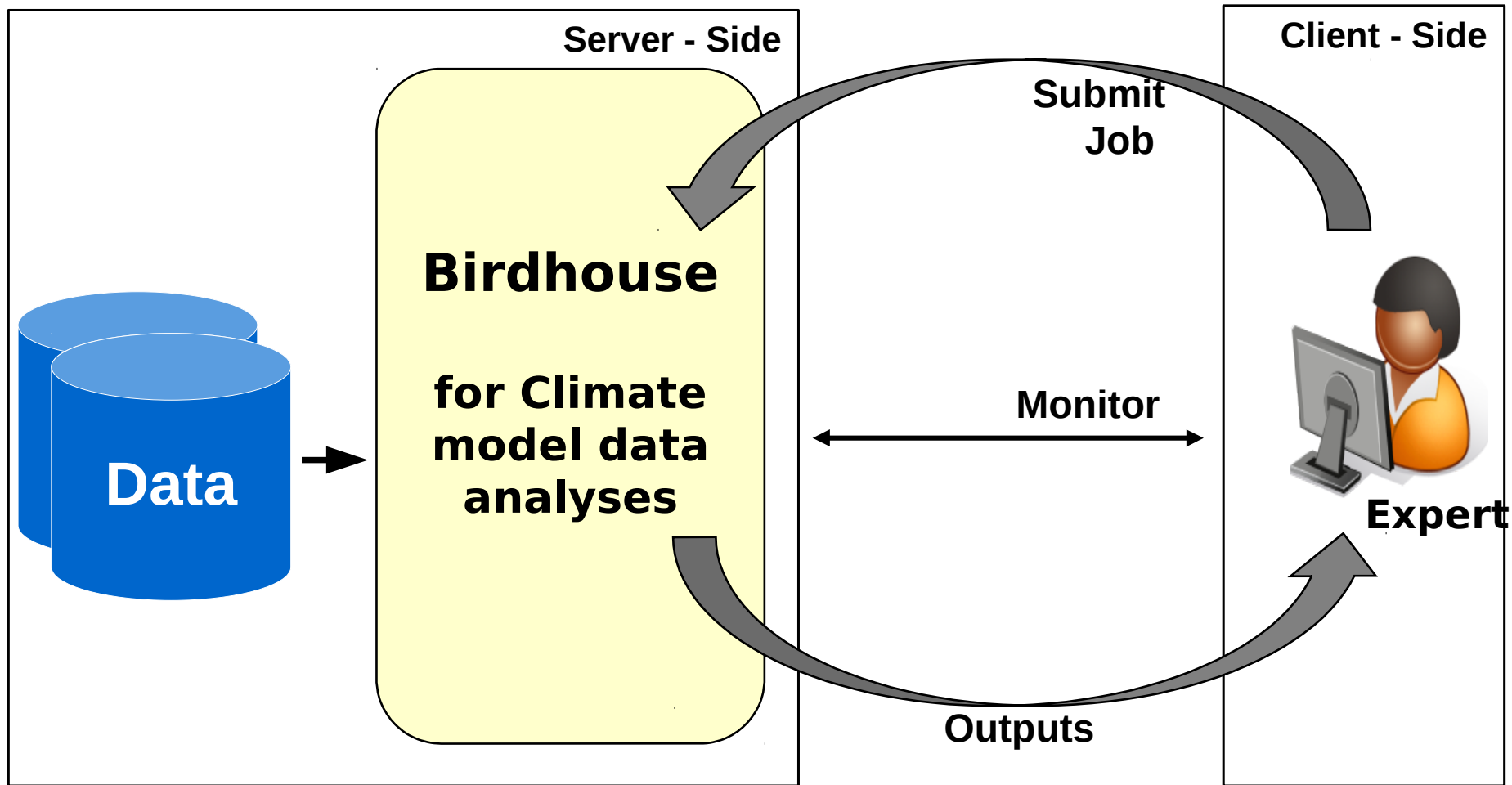
nils.hempelmann@giz.de



Internet connection



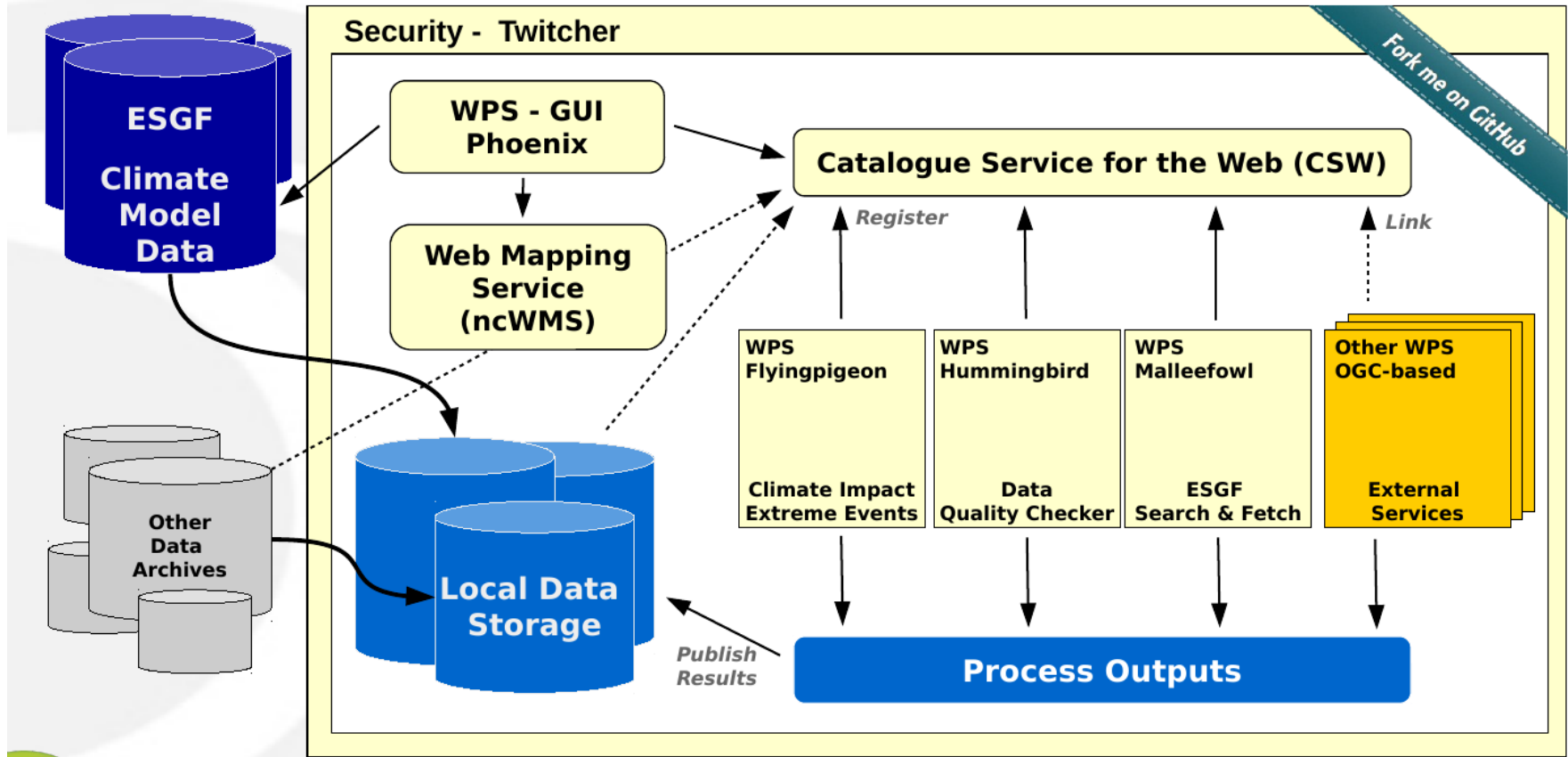
Data-Centers





Birdhouse - Ecosystem

<https://github.com/bird-house/>





Flyingpigeon : Climate Impact and extreme events

Subset continents

Subset countries

Subset Points

Climate indices

Climate indices

Weather Regimes

Weather Regimes

Weather Regimes

Analogs -- Detection

Analogs -- Viewer

Segetal Flora

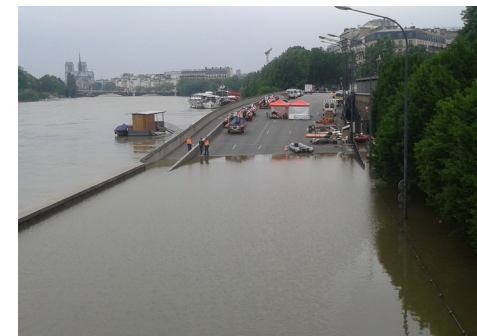
SDM

SDM

Timeseries plots

Download Resources

- Returns only the selected polygon for each input dataset
- Returns only the selected polygon for each input dataset
- Extract Timeseries for specified coordinates from datasets
 - Simple - Climate indices based on one single input variable.
 - Percentile - Climate indices based on one single input variable and the percentile of a reference period.
- Reanalyses data - Weather Regimes based on pressure patterns, fetching selected Reanalyses Datasets
- Climate model data - Weather Regimes based on pressure patterns, fetching selected Reanalyses Datasets
- Projection of Weather Regimes - Weather Regimes detection based on trained reference statistics
- Search for days with analog pressure pattern
- Visualisation of text output of analogue process
- Species biodiversity of segetal flora. Input files: variable:tas , domain: EUR-11 or EUR-44
- GBIF search - Species distribution model for tree species based on GBIF presens/absence data and climate indices
- csv table - Species distribution model for tree species based on GBIF presens/absence data and climate indices
- Plots of the filesmeans over time. Spagetti and uncertainty plot
- This process downloads resources to the local file system of the birdhouse compute provide



More under development ;-)



Climate Fact-Sheet Generator

Climate Fact Sheet Generator

Returns a pdf with a short overview of the climatological situation for the selected countries

[XML](#) [Doc](#)

Literal inputs of Climate Fact Sheet Generator

Region *

Region

CMR

COD

[Add Region](#)

[Previous](#) [Cancel](#) [Next](#)

Wizard Monitor Map Help

ESGF Search *

Datasets found: 18

Search Options

Fretext Search

Your keyword selections

project:CORDEX domain:EUR-11 experiment:historical experiment:rcp65 time_frequency:day variable:tas

Categories

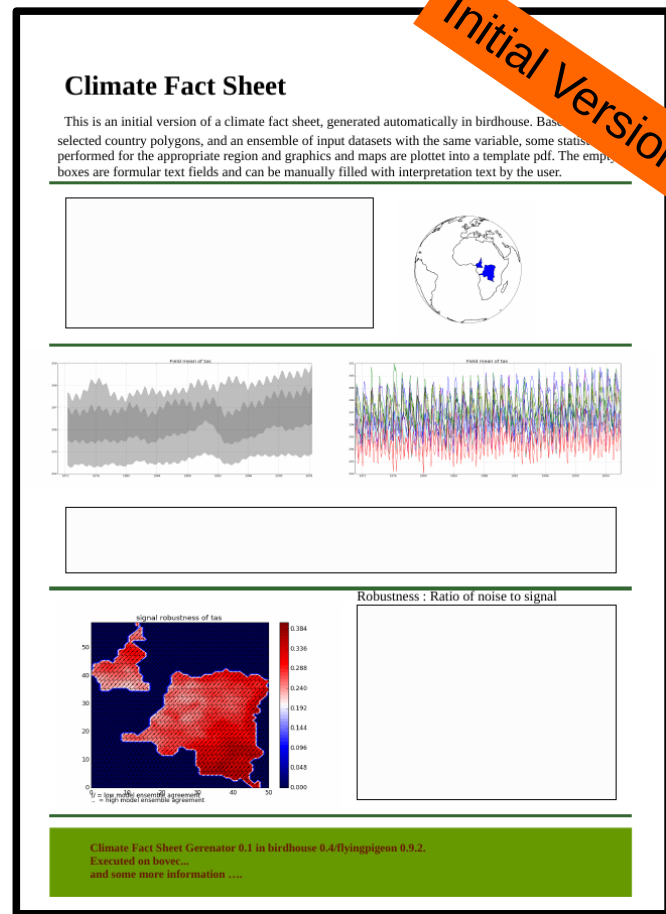
access data_node driving_model ensemble experiment experiment_family institute rcm_name rcm_version version

Keywords: variable

tas

Date

[Previous](#) [Cancel](#) [Next](#)



PDF - Formular



- **Source and Documentation:**
<https://github.com/bird-house>
<http://birdhouse.readthedocs.org/en/latest/>
- **Support :**
<https://gitter.im/bird-house/birdhouse>
<https://lists.dkrz.de/mailman/listinfo/wps>
<https://lists.dkrz.de/mailman/listinfo/wps-dev>
- **Paper :**
<https://hal.archives-ouvertes.fr/hal-01375615>
- **DEMO Server:**
<https://mouflon.dkrz.de>