

## **Wikiprint Book**

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## What is ESGF Tools UI?

A tool that is integrated in [?ToolsUI NetCDF Java](#) for including a desktop client for [?ESGF services](#), with features like search of data along multiple nodes, download manager and metadata aggregation for allowing a full exploration through dataset services.

The added functionality in ToolsUI NetCDF is in ESGF tab. This tab contains 4 sub-tabs, each one with an specific functionality.



## Getting started

### Pre-requisites

JDK from Sun / Oracle (1.5 - newer) or OpenJDK 6

OpenJDK 7 is not supported

### Installation

1. Download the zip in [ESGFToolsUI-0.4.1.zip](#)
2. Unzip it
3. Go to unzipped directory
  - In Windows:
    - Open ESGFToolsUI.jar
  - In Linux
    - In shell:

```
java -jar ESGFToolsUI.jar
```

## Search of ESGF Climate Data

A search in ESGF returns the records that matching the search constraints after querying to an index node. The ESGF search service is always served by a index node and this node is able to do local and distributed searches. In this tool, the distributed capabilities of the ESGF are used so any selected index node will be used to query all nodes in the ESGF system.

The search panel of ESGF climate data is in the "Search" sub-tab. The search constraints are defined by parameter configuration in the panel or by introduction of a free-text search query. The result are the number of records finding in the federation that satisfy the constraints of search (in panel in bottom right area). Record is the physical replica of a climate dataset that are stored on a data node.

The screenshot displays the ESGF search interface. At the top, there is a menu bar with tabs for Viewer, Writer, NCDump, Iosp, CoordSys, FeatureTypes, THREDDS, Fmrc, GeoTiff, Units, NcML, URLdump, and ESGF. Below this is a sub-menu with Search, Search Harvesting, Downloads, and Login. The search bar contains the text 'esgf-index1.ceda.ac.uk' and a 'Free text:' field. To the right of the search bar are buttons for 'Edit' and '<< New search >>'. A tree view on the left shows the following categories and counts:

- Experiment(6)
  - esmHistorical(14)
  - historical(372)
  - historicalExt(34)
  - historicalGHG(35)
  - historicalMisc(124)
  - historicalNat(35)
- Model(33)
- Time frequency(1)
- Ensemble(43)

Below the tree view is an 'Add Parameters' button. The main search results area is currently empty. At the bottom of the interface, there is a 'Configured parameters' section with the following values:

- Project : [CMIP5]
- Time frequency : [6hr]
- Experiment family : [Historical]

To the right of the configured parameters, it shows 'Number of records: 614'. Below this are buttons for 'Save Search As...', 'Save Search', 'Remove', and 'Remove all'.