



The ESO Telescope Bibliography at your Fingertips



Uta Grothkopf and Silvia Meakins
European Southern Observatory (ESO) library@eso.org

Summary

Bibliometric studies have become increasingly important in evaluating individual scientists, specific facilities, and entire observatories. The ESO Library has developed and maintains the Telescope Bibliography (telbib), a database of refereed papers that use observational data generated by ESO's facilities.

Recently, a new public telbib interface has been released. In addition to classical queries for bibliographic and facilities-related information, it provides advanced features like faceted searches and filtering, autosuggest support for author, bibcode and program ID searches, hit highlighting as well as recommendations for other papers of possible interest.

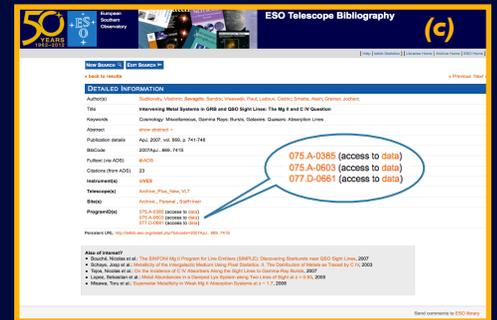
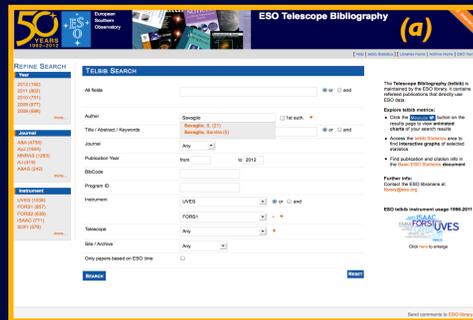
An additional tool offers the possibility to create graphical statistics on the fly based on user-defined criteria.

The ESO Telescope Bibliography is available at <http://telbib.eso.org/>

ESO Telbib Public Interface

(a) Search interface

- query by bibliographic info or instrument, telescope, proID
- spellchecker for search terms ("Did you mean...?")
- overview of top 5 journals and instruments
- autosuggest support for author, bibcode, proID searches



(b) Results list

- paper titles linked to detailed display
- faceted filtering to limit results
- export feature for further use of results set
- access to interactive graphs and visualizations



telbib Statistics

- all telbib (1996 - present)
- predefined graphs
- interactive

(c) Detailed record display

- full list of observing facilities + additional tags
- highlighted search terms
- program IDs linked to data in ESO Archive
- recommendations for other papers of interest

VISUALIZE

- based on search results
- "on the fly"
- interactive

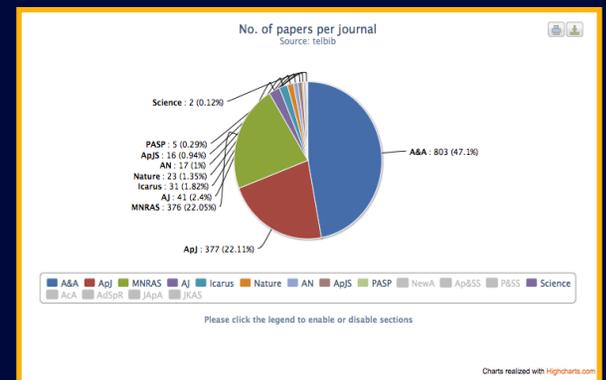
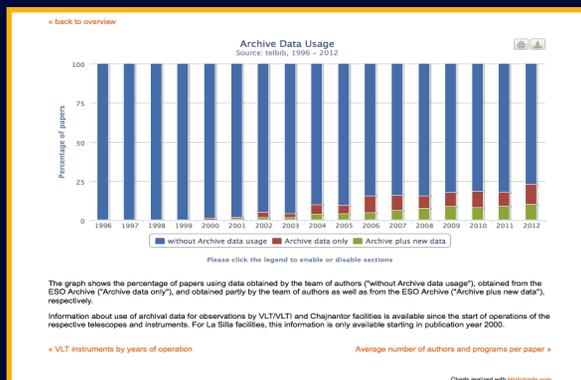
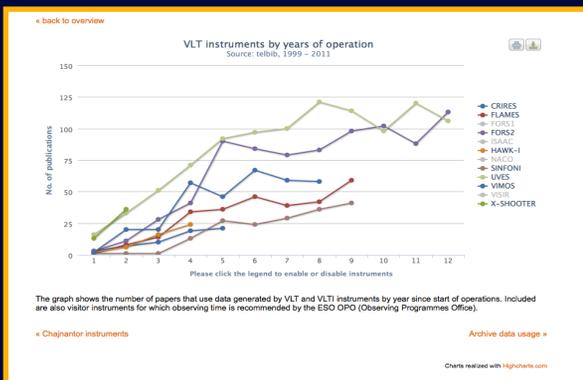
Statistics and Visualizations

In addition to an export feature which allows users to export result sets to tab-separated (.txt) or comma-separated (.csv) formats, it is now possible to view graphs and visualizations. These are either predefined **telbib Statistics** charts, covering all publication years of telbib papers (1996 - present), or **visualizations** which are created "on-the-fly", based on the criteria entered by users in the telbib search interface.

Example 1: telbib Statistics

Example 2: telbib Statistics

Example 3: VISUALIZE



In order to compare the performance of various instruments, it can be useful to show the number of papers that use data from the respective facilities as a function of years of operation. **telbib Statistics** are interactive: instruments that are greyed-out in the legend are currently not displayed, but can be switched on by the user.

The **telbib Statistics** provide information about the fraction of papers in the database that use exclusively new observations (blue bars), exclusively archival data (red bars), or a mix of new and archival observations (green bars) by publication year.

The **VISUALIZE** feature was used to display the distribution of papers per journal. The graph is based on the search result. Journals that are greyed-out in the legend are currently not displayed, but can be switched on by the user.