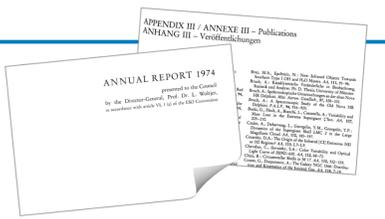


The original purpose of tracking publications that use data from ESO's telescopes and instruments was to prepare lists of articles which were then printed in the ESO Annual Report. The earliest publication list can be found in the ESO Annual Report 1974.



The ESO Telescope Bibliography - now and then

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Summary

As soon as scientific papers were published using observational data from ESO's facilities, information about these publications was gathered and printed in the ESO Annual Reports. These rather simple lists evolved in an amazing way over time. In the mid-90ies, bibliographic information started to be stored in a database. A publicly accessible web interface became available in 2004. Today, the ESO Telescope Bibliography (telbib) has become a sophisticated system that is used to track ESO-related papers, store additional metadata, and generate statistics and reports. telbib can be queried in a multitude of ways through the public interface. Results lists can be exported for further use or visualized in interactive graphs. The ESO Telescope Bibliography is available at <http://telbib.eso.org/>

1996 350 articles in telbib

2003

A specific software for gathering the papers is developed, tailored to the telbib requirements. It is realized with VisualBasic and Sybase.



1996

Since 1996, a simple database, a derivative of the Sybase db used by ESO's Archive group, is deployed to store information about scientific papers that use partly or exclusively ESO data and link them to the observations that generated the data. The resulting database is called the ESO Telescope Bibliography (telbib).



2004

2005 4,300 articles in telbib since 1996

2006

2006

FUSE, the ESO Fulltext Search tool, becomes available. It semi-automatically screens articles for ESO-related papers and highlights results in context. Each paper is then visually inspected by the librarians to decide whether or not it should be included in telbib.



2004

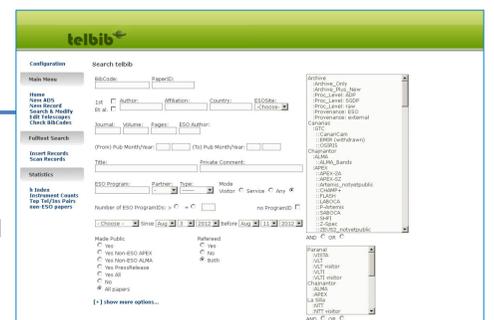
The first telbib web interface is launched. It is publicly accessible and provides several bibliographic and observational query options. ESO programme IDs in the records provide access to the data in the archive (Delmotte et al. 2005).



2007

2007

The telbib database structure and librarians' backend are completely re-engineered. telbib 2.0 is a complex system used to track ESO-related scientific papers, store additional metadata, and generate statistics and reports (Erdmann & Grothkopf 2010).



2011 8,600 articles in telbib since 1996

2011

Latest ESO telbib papers can be subscribed via RSS-Feed



2012

New ESO Telbib Public Interface

The new telbib frontend is launched. It provides a large variety of search parameters (e.g., by bibliographic info, ESO facility, or programme ID) as well as a multitude of features that help users formulate their queries (see Grothkopf & Meakins 2012). On the results page, titles are linked to the detailed display, filters are available to limit searches (e.g., by publication year or instrument), and programme IDs provide access to the data in the ESO Archive. The Export feature can be used to download result sets.

Statistics and Visualizations

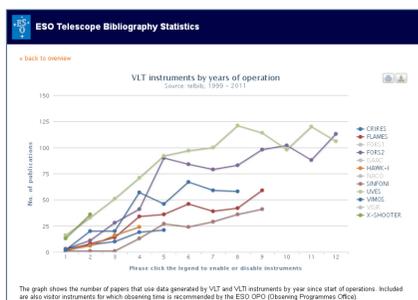
The telbib interface offers easy access to graphs and visualizations. These are either predefined *telbib Statistics charts*, covering all publication years (1996 - present), or *visualizations* which are created "on-the-fly", based on the criteria entered by users in the telbib search interface. All charts are *interactive*: parameters can be displayed or greyed-out according to the user's choice.

telbib Statistics:

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

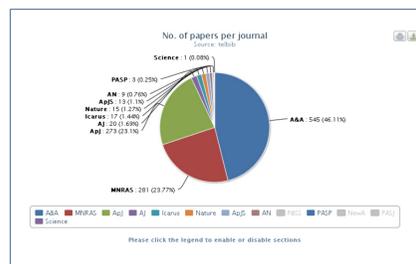
Visualizations:

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



Example 1: telbib Statistics

The performance of various instruments can be compared by looking at the number of papers as a function of years of operation.



Example 2: VISUALIZE

In this example, the VISUALIZE feature was used to display the distribution of papers per journal. The graph is based on the search result.

