European Southern Observatory

ESO Telescope Bibliography

Beyond the obvious —

Quality metrics from the ESO Telescope Bibliography

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ESO Library
library@eso.org

ESO telescope **bib**liography (telbib)

- database of refereed papers that use ESO data
- built and curated by ESO library
- telbib.eso.org

- interconnect resources

  proposals - data - papers

- evaluate ESO's scientific performance & measure impact

  metrics for statistics, reports, visualizations

- define guidelines for future telescopes and instruments

  analyze publishing behaviour to understand needs of ESO's user community

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Overview

- telbib **curation**
- ESO facilities: biblio**metrics**
- ESO in context: **comparisons** with other facilities

- telbib **curation**

Refereed (e-)journals

Text mining


fuse
fulltext search
Search
» Insert
» Queue
Admin
» Journals
» Displays
» Stop Words
» Keywords
» Searches
» Help
Last Resort
» Insert
» Manual
Current Query
User: Uta
Query Date: 2012-03-03 17:04:31
Journals Searched:
Query Link: http://adsabs.harvard.edu/cgi-bin/nph-abs_connect?...
Dates Searched: 0000-00-00 - 0000-00-00
Notes: Dates Searched: 2012-01-13 - 2012-01-20
Records Searched: 1
Keywords found: 11
View Search Log
Delete Selected | Delete Included | Delete All Records | Fulltext Search | Export Records - choose -
ID# Status Search Record/Keyword(s) LookInside Online Delete Debug
88795 Not Included 2012MNRAS.420..346G 88795.txt PDF/HTML debug
Gruel, N.
Stellar velocity dispersion of luminous compact galaxies at intermediate redshift
Monthly Notices of the Royal Astronomical Society, Volume 420, Issue 1, pp. 346-351.
"00) spectrograph FORS1 and FORS2 on the VLT /Kuyen telescope. The spectra revealed some strong a"
" the velocity field for some LCGs using GIRAFFE at the VLT. However, because of the small appar"
"hs for a handful of LCGs, measured with ISAAC at the VLT (Tresse et al. 2002), show a `double h"
" observed 22 of these galaxies with the FORS /R600 and I600 spec- trograph at the European South"
"ion (R > 600) spectrograph FORS 1 and FORS 2 on the VLT/Kuyen telescope. The spectra revealed
visual inspection

ESO TELBIB SELECTION CRITERIA:

Papers that

- partly or exclusively **use ESO data**
- **proprietary** (obt. by authors) or **archival**

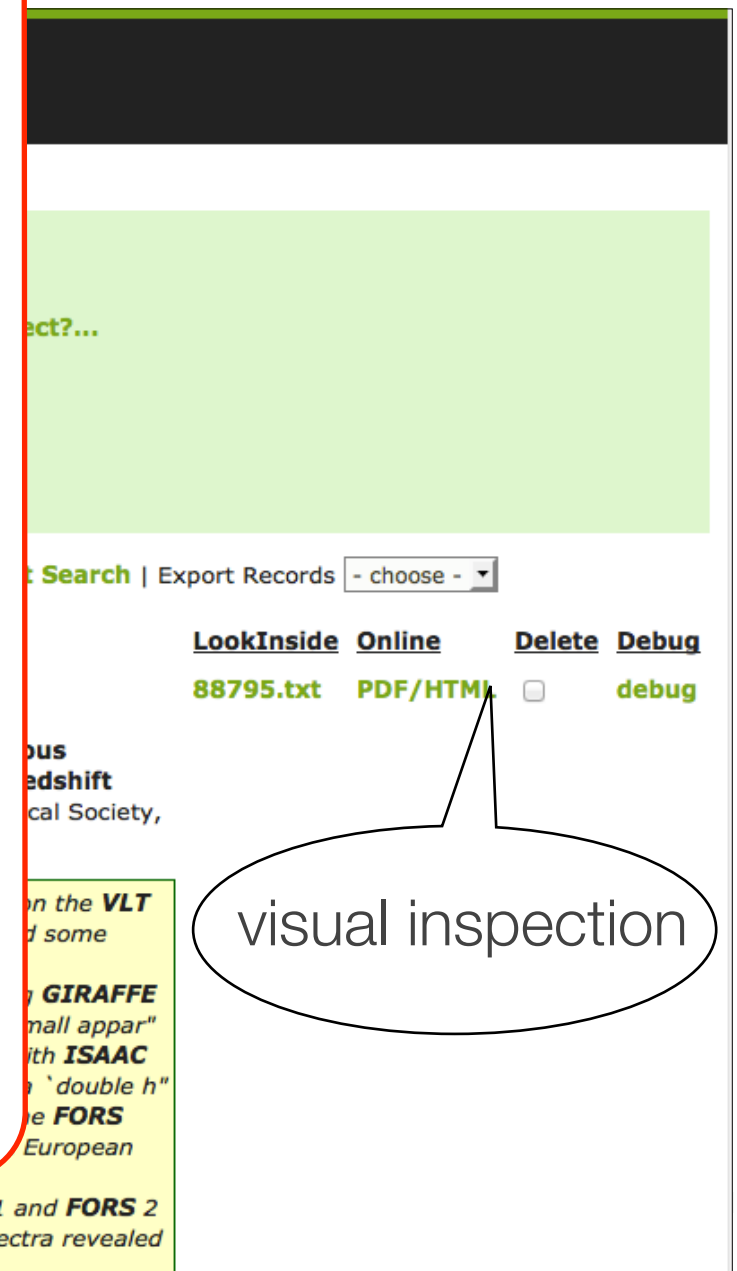
—> included

Papers that

- quote results from literature
- mention ongoing projects
- suggest future observations
- describe instrumentation / software
- use data in models or simulations merely as examples
- use images only as visual reference

—> excluded

- define policies
- apply them consistently

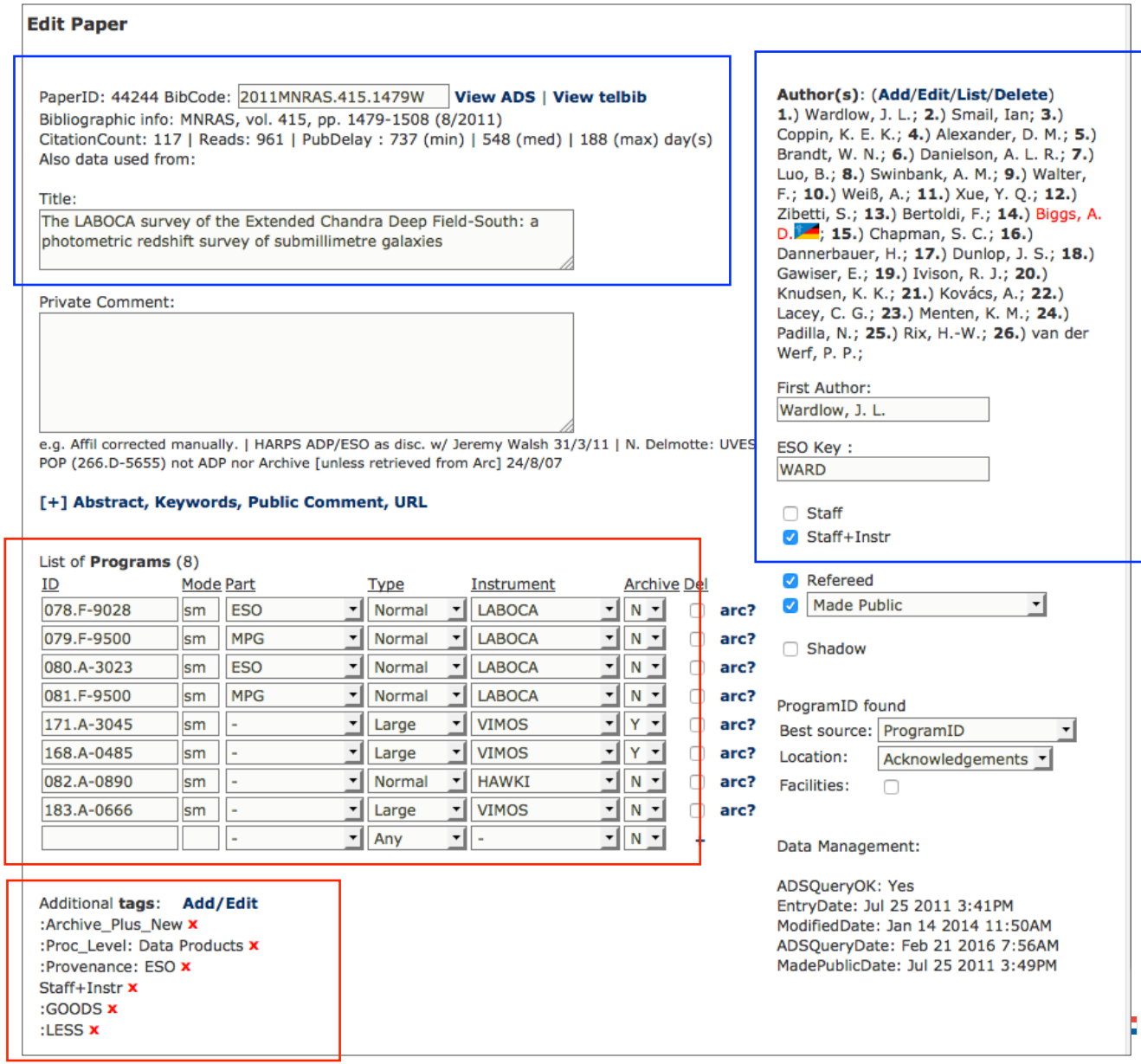


Data links and metadata in telbib

Title
Biblio info
Citations

Instruments
Mode / Type
pro IDs

Other tags

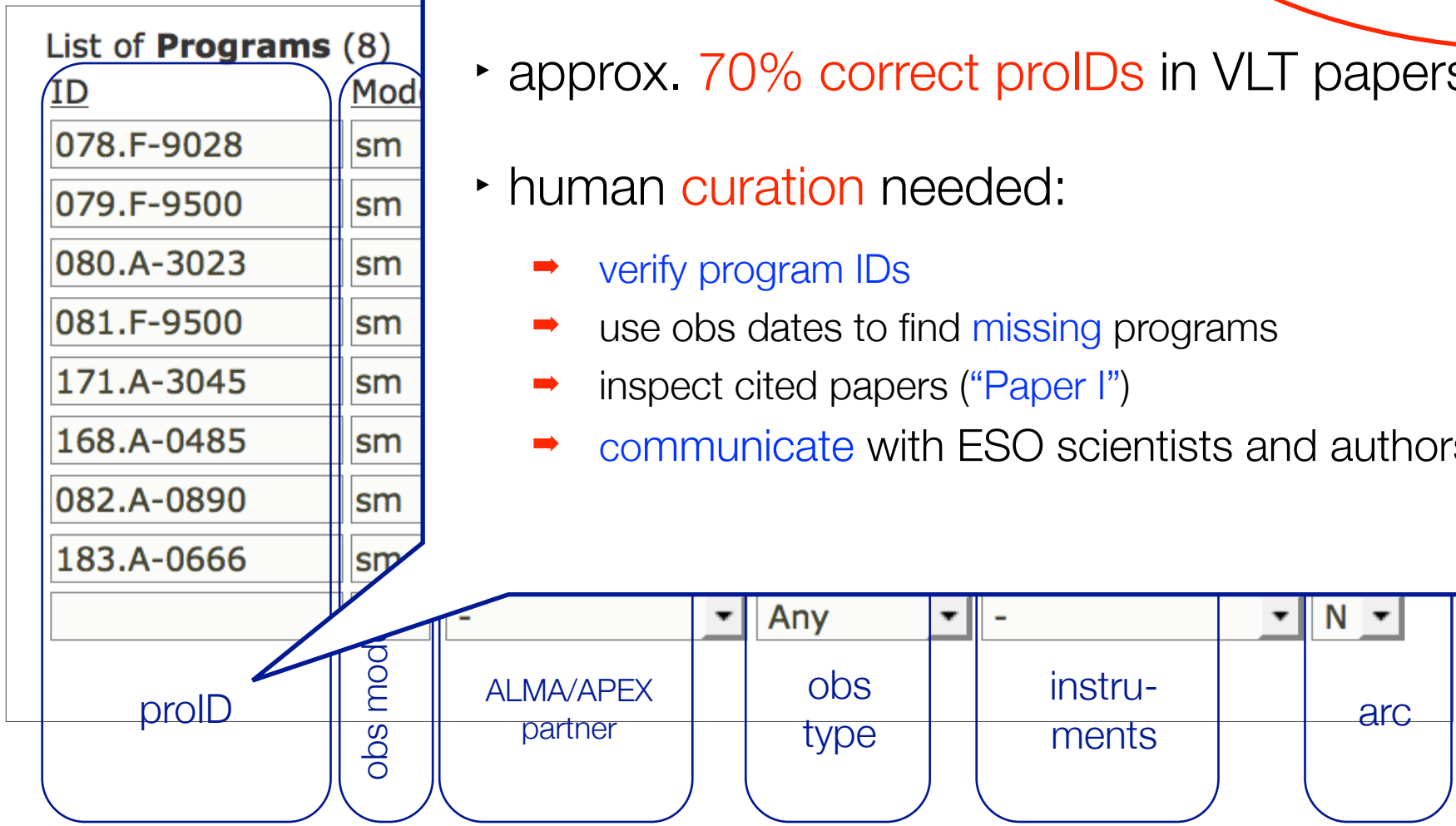


Author info

Data links and metadata in telbib

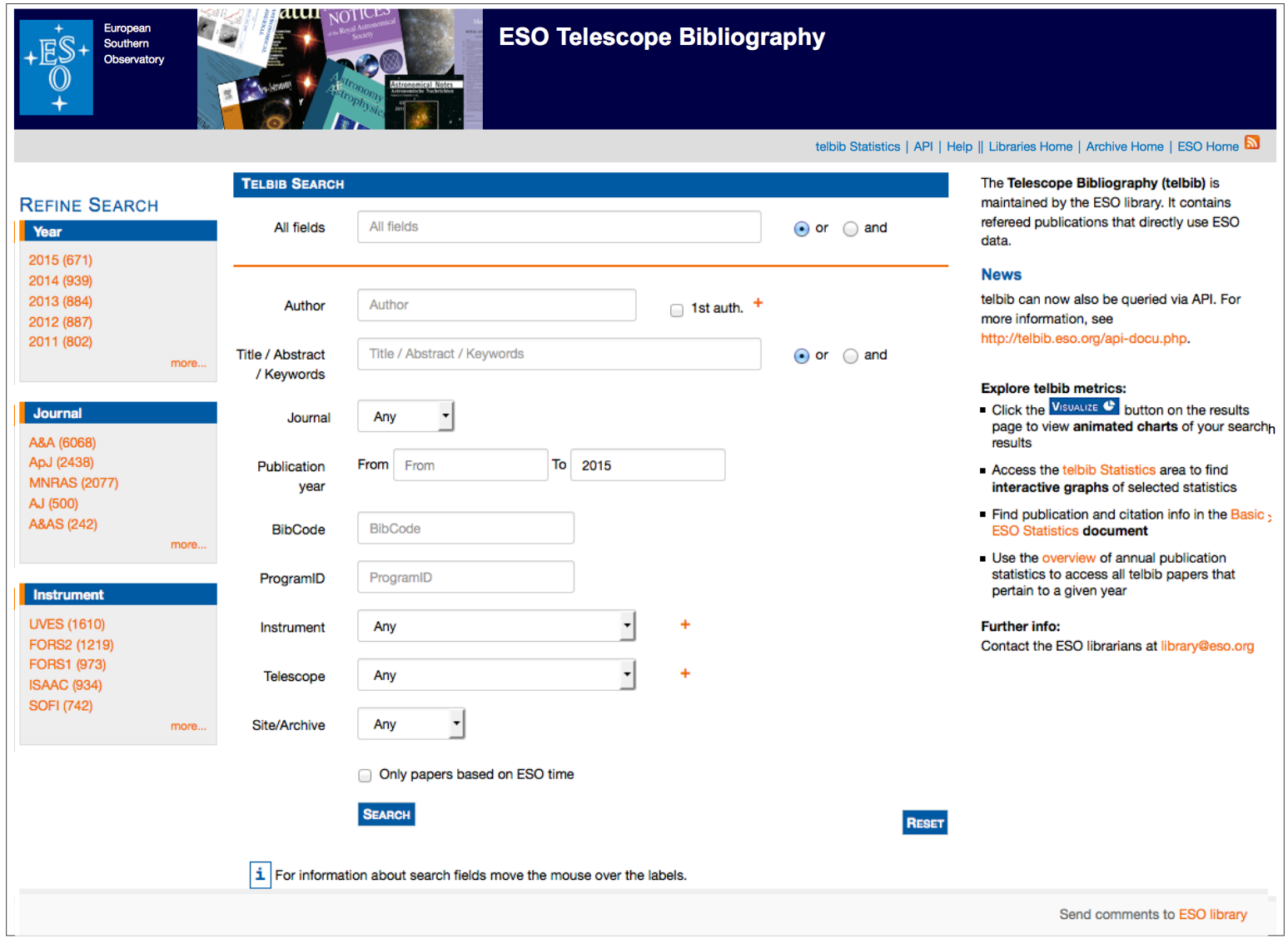
telbib complete >95%

- approx. 70% correct proIDs in VLT papers
- human curation needed:
  - ➡ verify program IDs
  - ➡ use obs dates to find missing programs
  - ➡ inspect cited papers (“Paper I”)
  - ➡ communicate with ESO scientists and authors

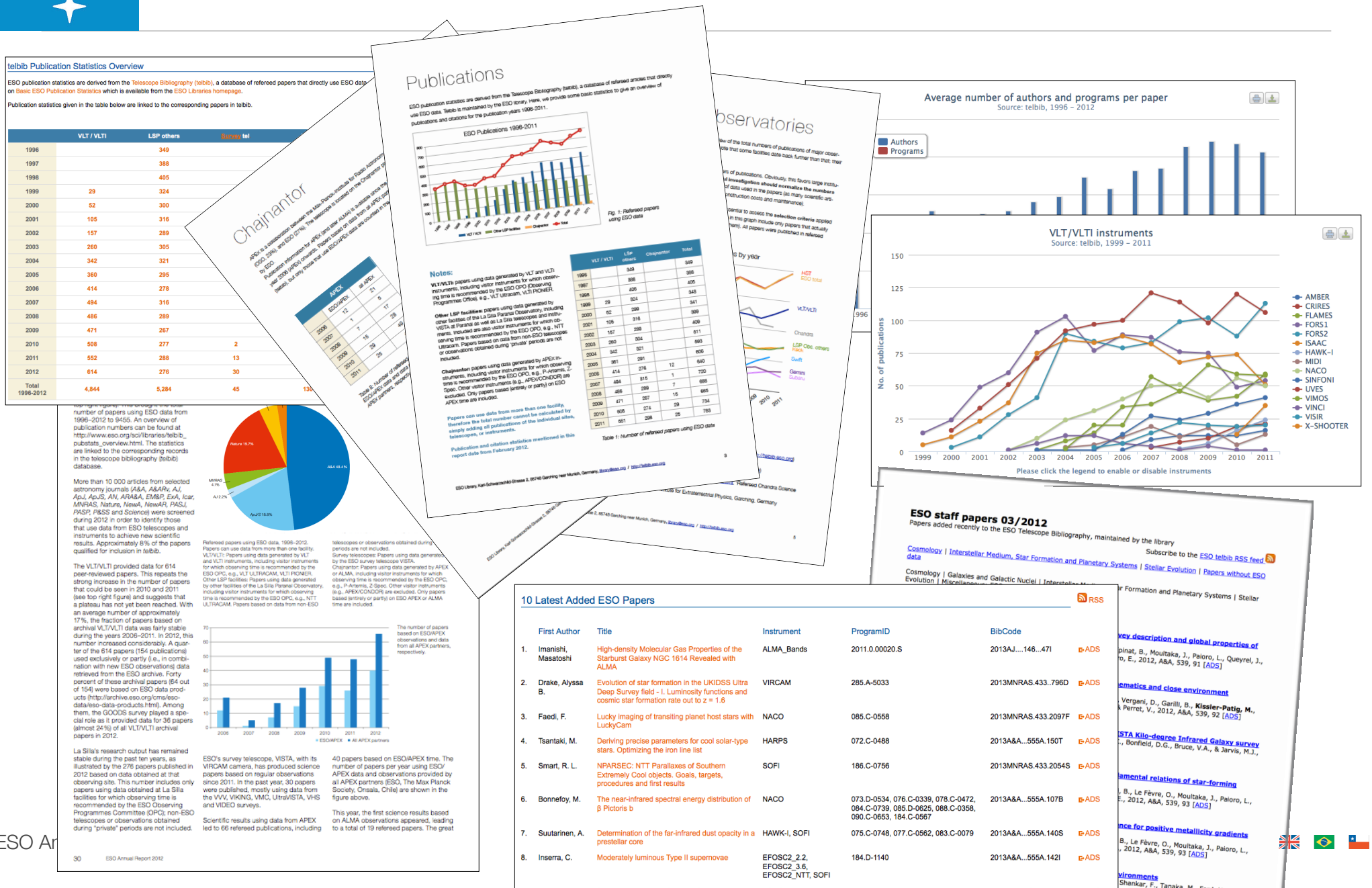


ESO facilities: biblio**metrics**

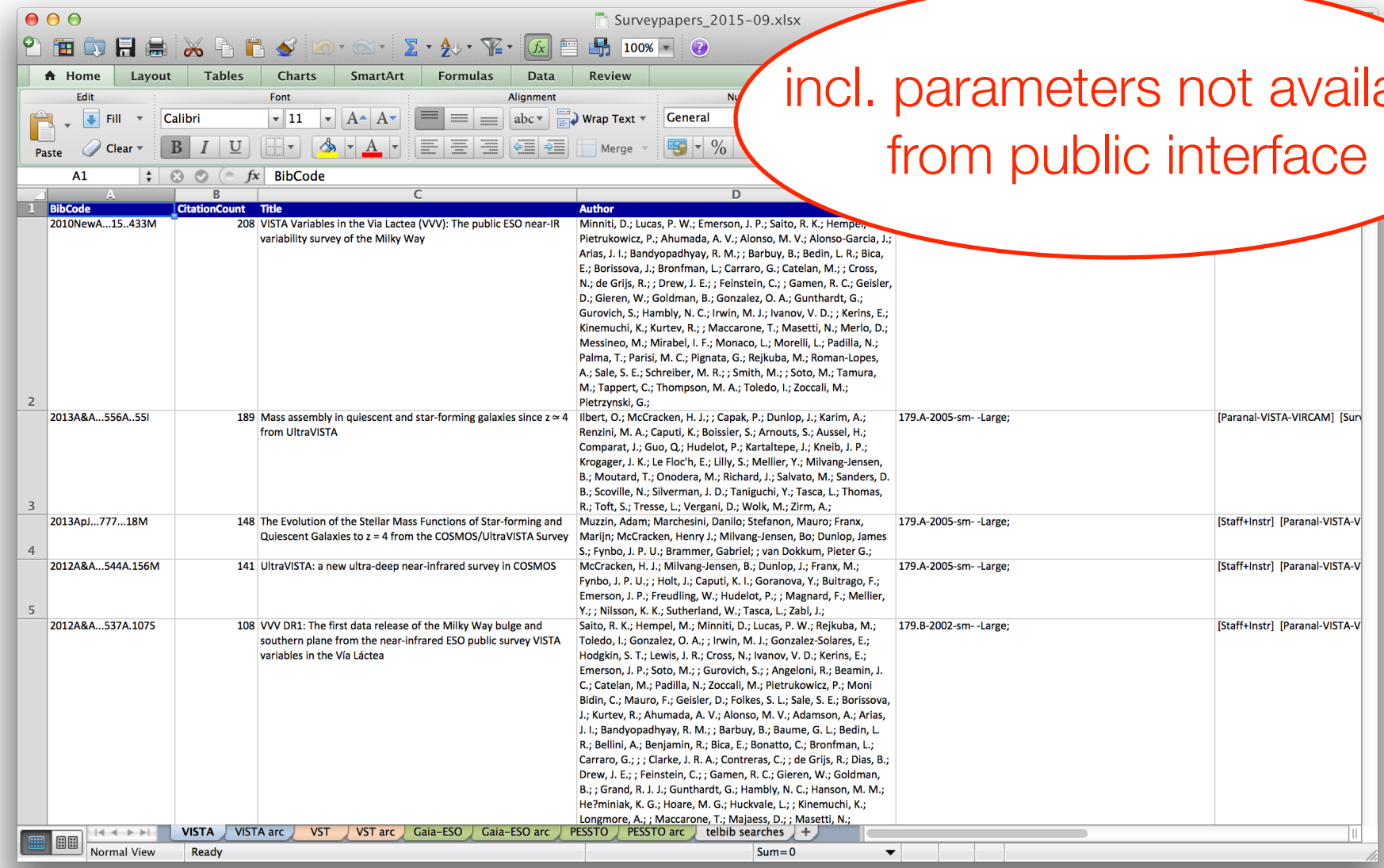
telbib public interface: telbib.eso.org



telbib products



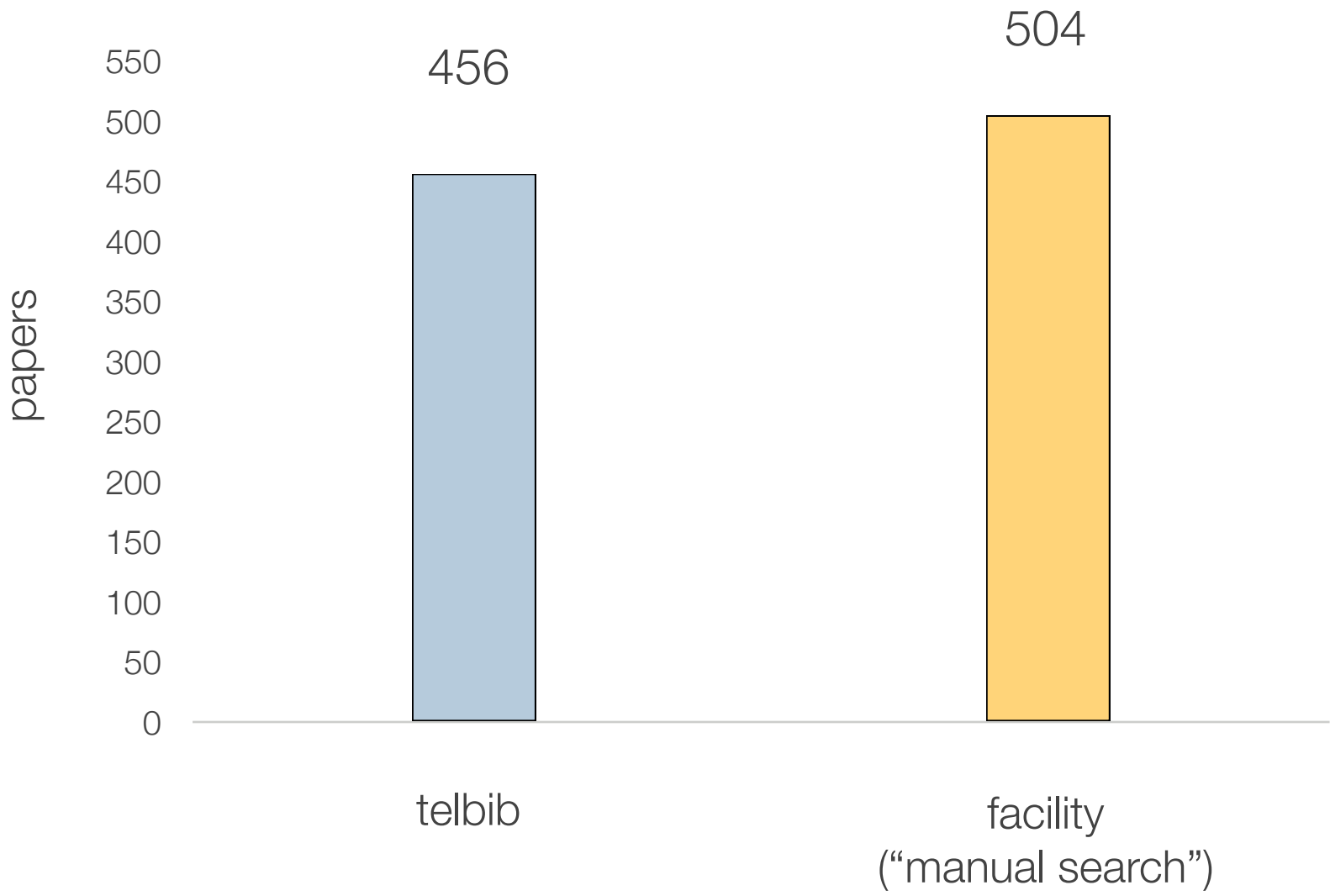
Recommended: telbib metrics from librarians



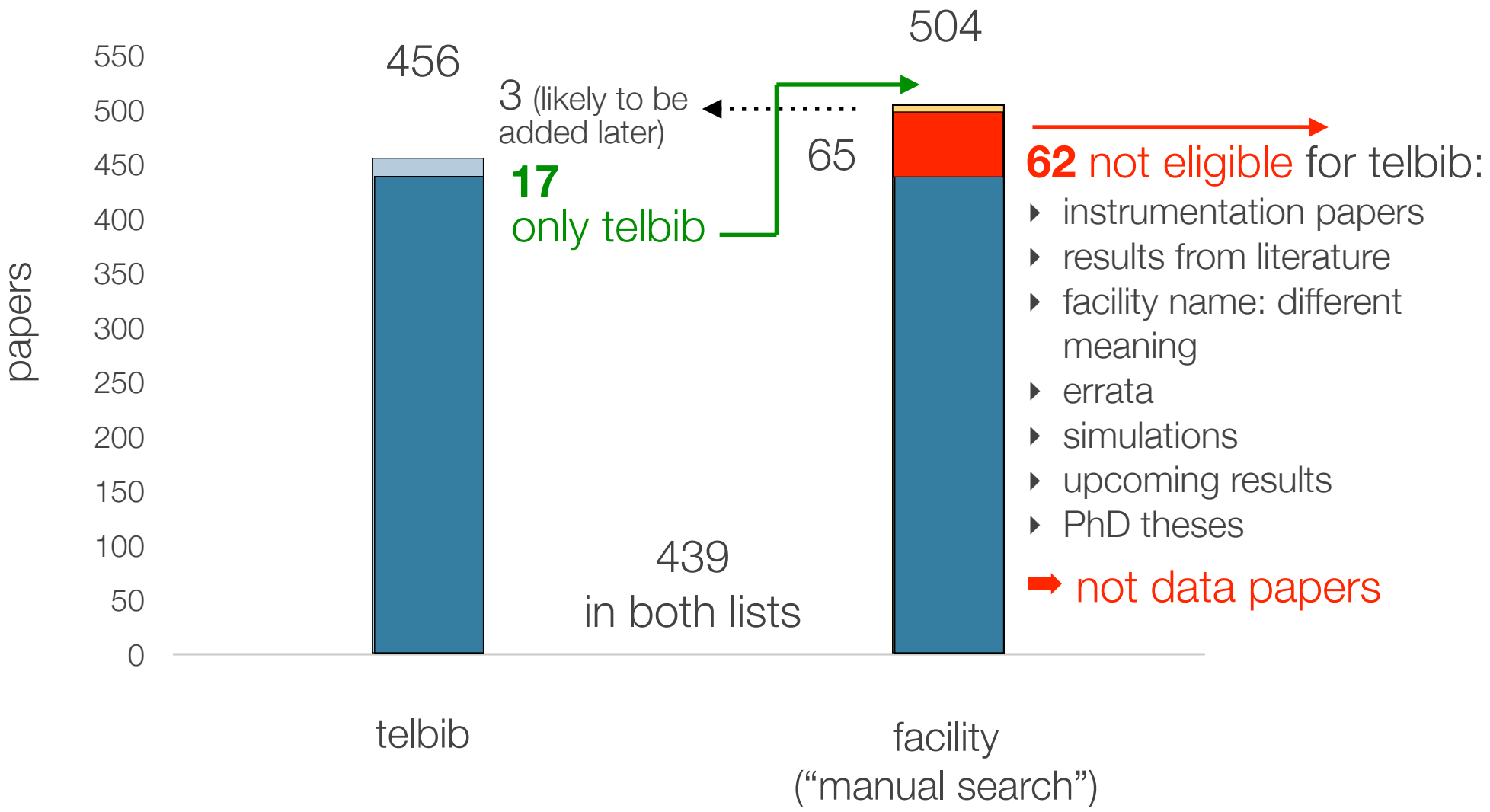
BibCode	CitationCount	Title	Author		
2010NewA...15..433M	208	VISTA Variables in the Via Lactea (VVV): The public ESO near-IR variability survey of the Milky Way	Minniti, D.; Lucas, P. W.; Emerson, J. P.; Saito, R. K.; Hempel, Pietrukowicz, P.; Ahumada, A. V.; Alonso, M. V.; Alonso-Garcia, J.; Arias, J. I.; Bandyopadhyay, R. M.; ; Barbuy, B.; Bedin, L. R.; Bica, E.; Borissova, J.; Bronfman, L.; Carraro, G.; Catelan, M.; ; Cross, N.; de Grijs, R.; ; Drew, J. E.; ; Feinstein, C.; ; Gamen, R. C.; Geisler, D.; Gieren, W.; Goldman, B.; Gonzalez, O. A.; Gunthardt, G.; Gurovich, S.; Hambly, N. C.; Irwin, M. J.; Ivanov, V. D.; ; Kerins, E.; Kinemuchi, K.; Kurtev, R.; ; Maccarone, T.; Masetti, N.; Merlo, D.; Messineo, M.; Mirabel, I. F.; Monaco, L.; Morelli, L.; Padilla, N.; Palma, T.; Parisi, M. C.; Pignata, G.; Rejkuba, M.; Roman-Lopes, A.; Sale, S. E.; Schreiber, M. R.; ; Smith, M.; ; Soto, M.; Tamura, M.; Tappert, C.; Thompson, M. A.; Toledo, I.; Zoccali, M.; Pietrzynski, G.;		
2013A&A...556A..55I	189	Mass assembly in quiescent and star-forming galaxies since z ≃ 4 from UltraVISTA	Ilbert, O.; McCracken, H. J.; ; Capak, P.; Dunlop, J.; Karim, A.; Renzini, M. A.; Caputi, K.; Boissier, S.; Arnouts, S.; Aussel, H.; Comparat, J.; Guo, Q.; Hudelot, P.; Kartaltepe, J.; Kneib, J. P.; Krogager, J. K.; Le Floc'h, E.; Lilly, S.; Mellier, Y.; Milvang-Jensen, B.; Moutard, T.; Onodera, M.; Richard, J.; Salvato, M.; Sanders, D. B.; Scoville, N.; Silverman, J. D.; Taniguchi, Y.; Tasca, L.; Thomas, R.; Toft, S.; Tresse, L.; Vergani, D.; Wolk, M.; Zirm, A.;	179.A-2005-sm- -Large;	[Paranal-VISTA-VIRCAM] [Surv
2013ApJ...777...18M	148	The Evolution of the Stellar Mass Functions of Star-forming and Quiescent Galaxies to z = 4 from the COSMOS/UltraVISTA Survey	Muzzin, Adam; Marchesini, Danilo; Stefanon, Mauro; Franx, Marijn; McCracken, Henry J.; Milvang-Jensen, Bo; Dunlop, James S.; Fynbo, J. P. U.; Brammer, Gabriel; ; van Dokkum, Pieter G.;	179.A-2005-sm- -Large;	[Staff+Instr] [Paranal-VISTA-V
2012A&A...544A.156M	141	UltraVISTA: a new ultra-deep near-infrared survey in COSMOS	McCracken, H. J.; Milvang-Jensen, B.; Dunlop, J.; Franx, M.; Fynbo, J. P. U.; ; Holt, J.; Caputi, K. I.; Goranova, Y.; Buitrago, F.; Emerson, J. P.; Freudling, W.; Hudelot, P.; ; Magnard, F.; Mellier, Y.; ; Nilsson, K. K.; Sutherland, W.; Tasca, L.; Zabl, J.;	179.A-2005-sm- -Large;	[Staff+Instr] [Paranal-VISTA-V
2012A&A...537A.107S	108	VVV DR1: The first data release of the Milky Way bulge and southern plane from the near-infrared ESO public survey VISTA variables in the Vía Láctea	Saito, R. K.; Hempel, M.; Minniti, D.; Lucas, P. W.; Rejkuba, M.; Toledo, I.; Gonzalez, O. A.; ; Irwin, M. J.; Gonzalez-Solares, E.; Hodgkin, S. T.; Lewis, J. R.; Cross, N.; Ivanov, V. D.; Kerins, E.; Emerson, J. P.; Soto, M.; ; Gurovich, S.; ; Angeloni, R.; Beamin, J. C.; Catelan, M.; Padilla, N.; Zoccali, M.; Pietrukowicz, P.; Moni Bidin, C.; Mauro, F.; Geisler, D.; Folkes, S. L.; Sale, S. E.; Borissova, J.; Kurtev, R.; Ahumada, A. V.; Alonso, M. V.; Adamson, A.; Arias, J. I.; Bandyopadhyay, R. M.; ; Barbuy, B.; Baume, G. L.; Bedin, L. R.; Bellini, A.; Benjamin, R.; Bica, E.; Bonatto, C.; Bronfman, L.; Carraro, G.; ; ; Clarke, J. R. A.; Contreras, C.; ; de Grijs, R.; Dias, B.; Drew, J. E.; ; Feinstein, C.; ; Gamen, R. C.; Gieren, W.; Goldman, B.; ; Grand, R. J. J.; Gunthardt, G.; Hambly, N. C.; Hanson, M. M.; He?miniak, K. G.; Hoare, M. G.; Huckvale, L.; ; Kinemuchi, K.; Longmore, A.; ; Maccarone, T.; Majaess, D.; ; Masetti, N.;	179.B-2002-sm- -Large;	[Staff+Instr] [Paranal-VISTA-V

incl. parameters not available from public interface

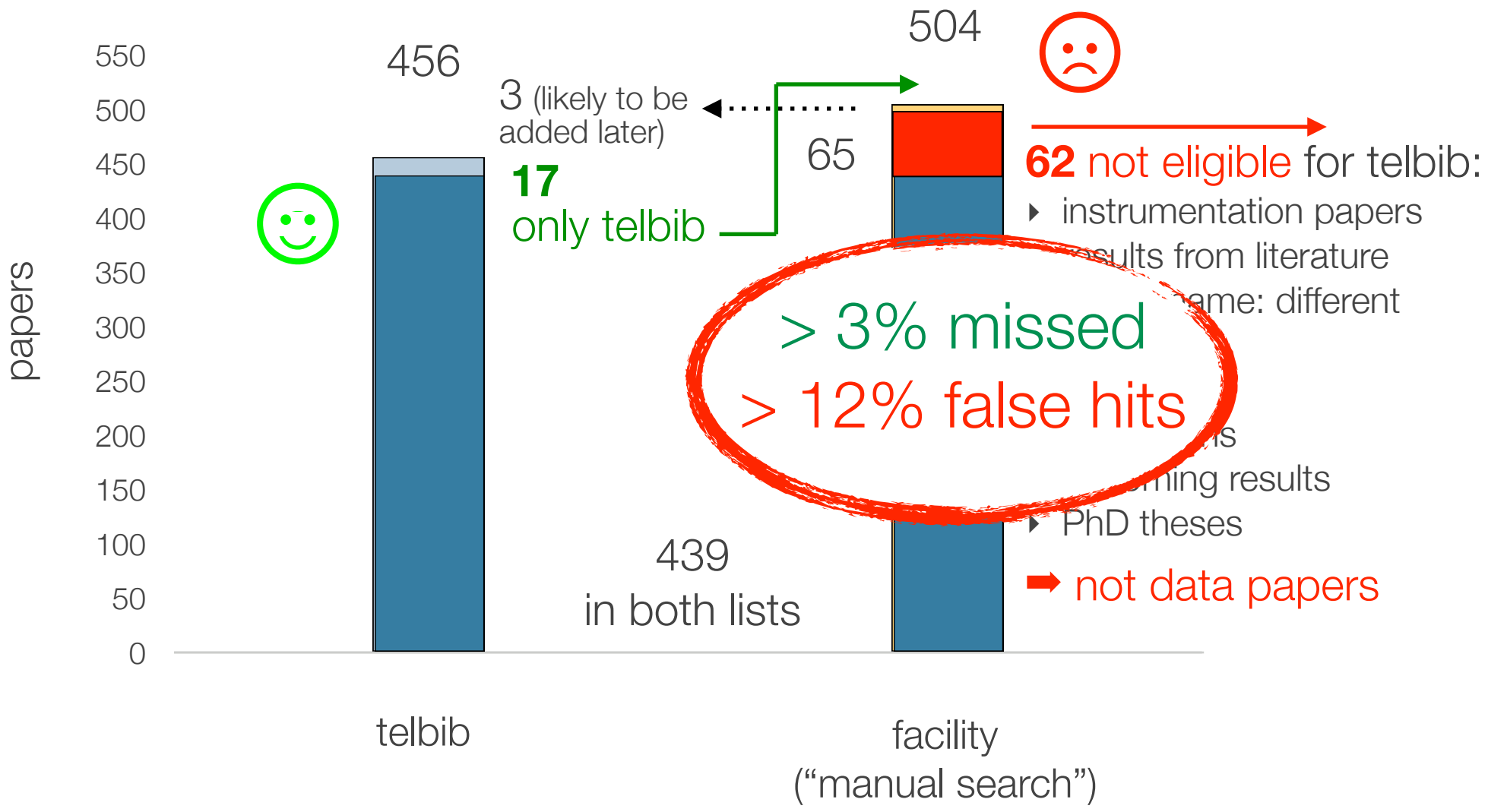
telbib vs. “manual” ADS search — example



telbib vs. “manual” ADS search — example



telbib vs. “manual” ADS search — example



Non-unique facility names

ISAAC

WFI VLT MOONS EIS

HARPS GRAVITY ESO

APEX ATLAS

- ESO in context: **comparisons** with other facilities

ESO telbib policies

ESO data publication policy

ESO Director General

http://www.eso.org/sci/observing/policies/publications.html

Description(s)

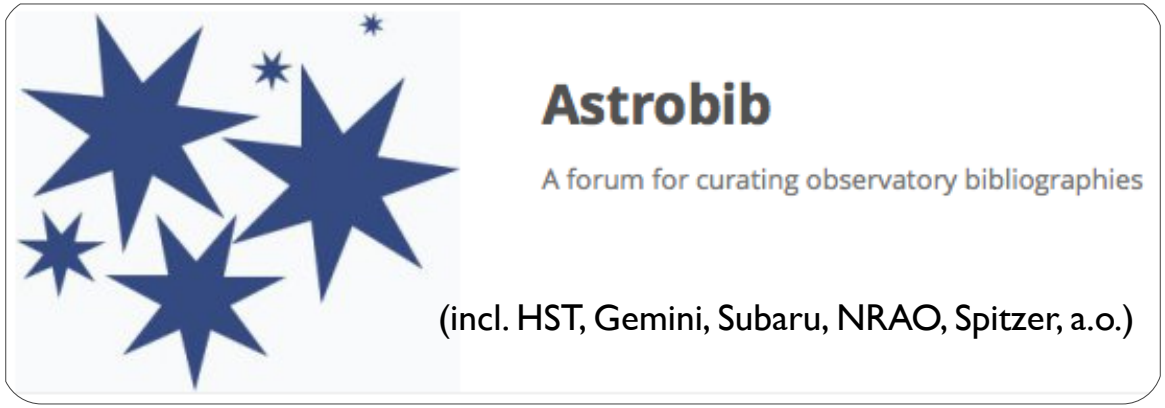
Paper classification

Papers pertaining to the ESO Telescope Bibliography use partly or exclusively data from ESO facilities. These can be observations taken by the authors or data obtained from the ESO Science Archive or other sources, regardless of whether or not the observations have been published before. However, papers that merely quote results from the literature, that are derived from ESO data, are excluded. Likewise, papers that describe instrumentation or software, simply mention ongoing projects (e.g., surveys or Large Programmes), suggest future observations with ESO facilities, develop models or run simulations, using data merely as examples, are not included in telbib. Also excluded are papers which show ESO images as a visual reference rather than using them to achieve scientific results.

The ESO librarians communicate extensively with authors as well as ESO instrument scientists and archive specialists to determine if, and which, observations were used in publications. The final decision about inclusion or exclusion of a given paper lies with the ESO Director for Science.

http://www.eso.org/sci/libraries/telbib_methodology.html

Cooperation with other curators



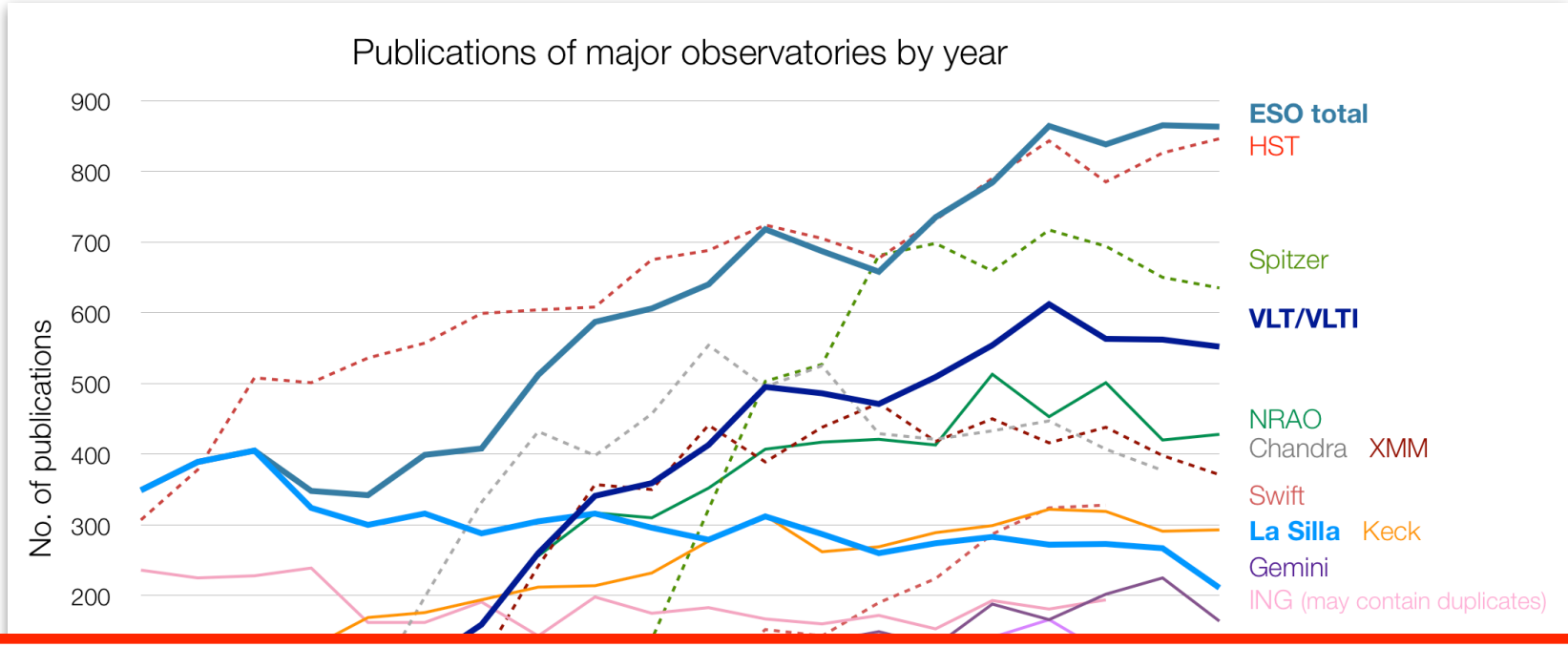
Astrobib

Forum of bibliography curators

IAU Comm. 5, WG Libraries:

"Best Practices for Creating a Telescope Bibliography"

Notice to users of comparisons



Please note that selection criteria for inclusion or exclusion of papers vary among observatories

Take-away Points

1. telbib is curated

- curation = “to take care of”
- much time & effort to verify telbib entries
- workflow ensures quality content

2. telbib provides insights

- large range of parameters
- numerous statistics, reports, and visualizations
- tool to understand publishing trends

3. Librarians cooperate with other curators

- aiming for transparency
- comparisons have many caveats
- handle with care!

(but this is what can be achieved at present)