

# If we build it, will they come?

Curation and use of the ESO telescope bibliography

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ESO Library  
[library@eso.org](mailto:library@eso.org)



## ESO telescope **b**ibliography (telbib)

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- ▶ database of refereed papers that use ESO data
- ▶ built and curated by ESO library
- ▶ [telbib.eso.org](http://telbib.eso.org)
  
- ▶ **interconnect resources:** proposals - data - papers
- ▶ **measure & evaluate ESO's scientific output:**  
metrics for statistics, reports, visualizations



# Overview

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- ▶ telbib **curation**
- ▶ telbib **access statistics**
- ▶ telbib **use cases**



# ► telbib curation



# Refereed 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?...](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		<b>2012MNRAS.420..346G</b> Gruel, N. <b>Stellar velocity dispersion of luminous compact galaxies at intermediate redshift</b> Monthly Notices of the Royal Astronomical Society, Volume 420, Issue 1, pp. 346-351.	88795.txt	PDF/HTML	<input type="checkbox"/>	debug

"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**

ect?...

Search | Export Records - choose -

LookInside	Online	Delete	Debug
88795.txt	PDF/HTML	<input type="checkbox"/>	debug

us  
shift  
Society,

"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



# Data links and metadata in telbib

**Edit Paper**

The current record has been updated.

PaperID: 44244 BibCode: 2011MNRAS.415.1479W **View**  
 CitationCount: 17

Title:  
 The LABOCA survey of the Extended Chandra Deep Field-South: a photometric redshift survey of submillimetre galaxies

Private Comment:  
 pro in acknowl. Also em from (prof.) Ian (Small ian.small@durham.ac.uk): b.on 183.A-0666. {078.F-9028, 079.F-9500, 080.A-3023, 081.F-9500=LABOCA, 171.A-3045, 168.A-0485=VIMOS, GOODS arc, 082.A-0890=HAWK-I, 183.A-0666=VIMOS} WFI, SQFI from lit.

e.g. Affil corrected manually | Non-ESO APEX paper. | HARPS ADP/ESO as disc. w/ Jeremy Walsh 31/3/11 | N. Delmotte: UVES POP (266.D-5655) not ADP nor Archive [unless retrieved from Arc] 24/8/07

**[+] Abstract, Keywords, Public Comment, URL**

List of Programs

ID	Mode	Part	Type	Instrument	Archive	Del
078.F-9028	sm	ESO	Normal	LABOCA	N	<input type="checkbox"/>
079.F-9500	sm	MPG	Normal	LABOCA	N	<input type="checkbox"/>
080.A-3023	sm	ESO	Normal	LABOCA	N	<input type="checkbox"/>
081.F-9500	sm	MPG	Normal	LABOCA	N	<input type="checkbox"/>
171.A-3045	sm	-	Large	VIMOS	Y	<input type="checkbox"/>
168.A-0485	sm	-	Large	VIMOS	Y	<input type="checkbox"/>
082.A-0890	sm	-	Normal	HAWK-I	N	<input type="checkbox"/>
183.A-0666	sm	-	Large	VIMOS	N	<input type="checkbox"/>
			Any	-	N	<input type="checkbox"/>

List of Instruments:

Instruments List

- Archive
- :Archive\_Only
- :Archive\_Plus\_New
- :Proc\_Level: ADP
- :Proc\_Level: SGDP
- :Proc\_Level: raw
- :Provenance: ESO
- :Provenance: external
- Canarias - GTC
- :CanariCam

Highlight & click edit button to add

Instruments for 44244

- :Archive\_Plus\_New
- :Proc\_Level: ADP
- :Provenance: ESO
- Staff+Instr
- :GOODS

Highlight & click edit button to delete

Author(s): **(Add/Edit/Delete)**  
 1.) Wardlow, J. L.; 2.) Small, Ian; 3.) Coppin, K. E. K.; 4.) Alexander, D. M.; 5.) Brandt, W. N.; 6.) Danielson, A. L. R.; 7.) Luo, B.; 8.) Swinbank, A. M.; 9.) Walter, F.; 10.) Weiß, A.; 11.) Xue, Y. Q.; 12.) Zibetti, S.; 13.) Bertoldi, F.; 14.) Biggs, A. D.; 15.) Chapman, S. C.; 16.) Dannerbauer, H.; 17.) Dunlop, J. S.; 18.) Gawiser, E.; 19.) Ivison, R. J.; 20.) Knudsen, K. K.; 21.) Kovács, A.; 22.) Lacey, C. G.; 23.) Menten, K. M.; 24.) Padilla, N.; 25.) Rix, H.-W.; 26.) van der Werf, P. P.

First Author:  
 Wardlow, J. L.

Journal:  
 MNRAS

Volume:  
 415

Page:  
 1479-1508

Month/Year:  
 8 2011

Refereed  Made Public

ProgramID found  
 Best source: ProgramID  
 Location: Acknowledgements  
 Facilities:

Data Management:  
 ADSQueryOK: Yes  
 EntryDate: Jul 25 2011 3:41PM  
 ModifiedDate: Sep 9 2011 3:18PM  
 ADSQueryDate: Sep 9 2011 11:28AM  
 MadePublicDate: Jul 25 2011 3:49PM

Other tags

Edit TelBib Paper OR Close Window





# Data links and metadata in telbib

List of **Programs** (8)

ID	Mode	Part	Type	Instrument	Archive
078.F-9028	sm	ESO	Normal	LABOCA	N
079.F-9500	sm	MPG	Normal	LABOCA	N
080.A-3023	sm	ESO	Normal	LABOCA	N
081.F-9500	sm	MPG	Normal	LABOCA	N
171.A-3045	sm	-	Large	VIMOS	Y
168.A-0485	sm	-	Large	VIMOS	Y
082.A-0890	sm	-	Normal	HAWKI	N
183.A-0666	sm	-	Large	VIMOS	N
	obs mode		Any	-	N

proID	obs mode	ALMA/APEX partner	obs type	instruments	arc
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# Data links and metadata in telbib

List of **Programs** (8)

ID	Mod
078.F-9028	sm
079.F-9500	sm
080.A-3023	sm
081.F-9500	sm
171.A-3045	sm
168.A-0485	sm
082.A-0890	sm
183.A-0666	sm

▸ approx. **70% correct proIDs** in VLT papers

▸ human **curation** needed

proID	obs mod	-	Any	-	N
		ALMA/APEX partner	obs type	instru-ments	arc





# telbib-to-data links

European Southern Observatory

ESO Telescop

NEW SEARCH  EDIT SEARCH

[« back to results](#)

**DETAILED INFORMATION**

Author(s)	Bensby, T.; Feltzing, S.
Title	Exploring the Milky Way
Keywords	Galaxy: disk, Galaxy: formation,
Abstract	<a href="#">show abstract</a> ▾
Publication details	A&A, 2014, vol. 562, p. A71-
BibCode	2014A&A...562A..71B
Fulltext (via ADS)	<a href="#">ADS</a>
Citations (from ADS)	102  4
Instrument(s)	FEROS, HARPS, UVES
Telescope(s)	Archive_Plus_New, E2.7, Proc_Level: Data Products, Provenance: ESO, VLT
Site(s)	Archive, La Silla, Paranal
ProgramID(s)	69.B-0277 (access to data) 072.B-0179 (access to data) 65.L-0019 (access to data) 67.B-0108 (access to data) 076.B-0416 (access to data) 082.B-0610 (access to data) 266.D-5655 (access to data)



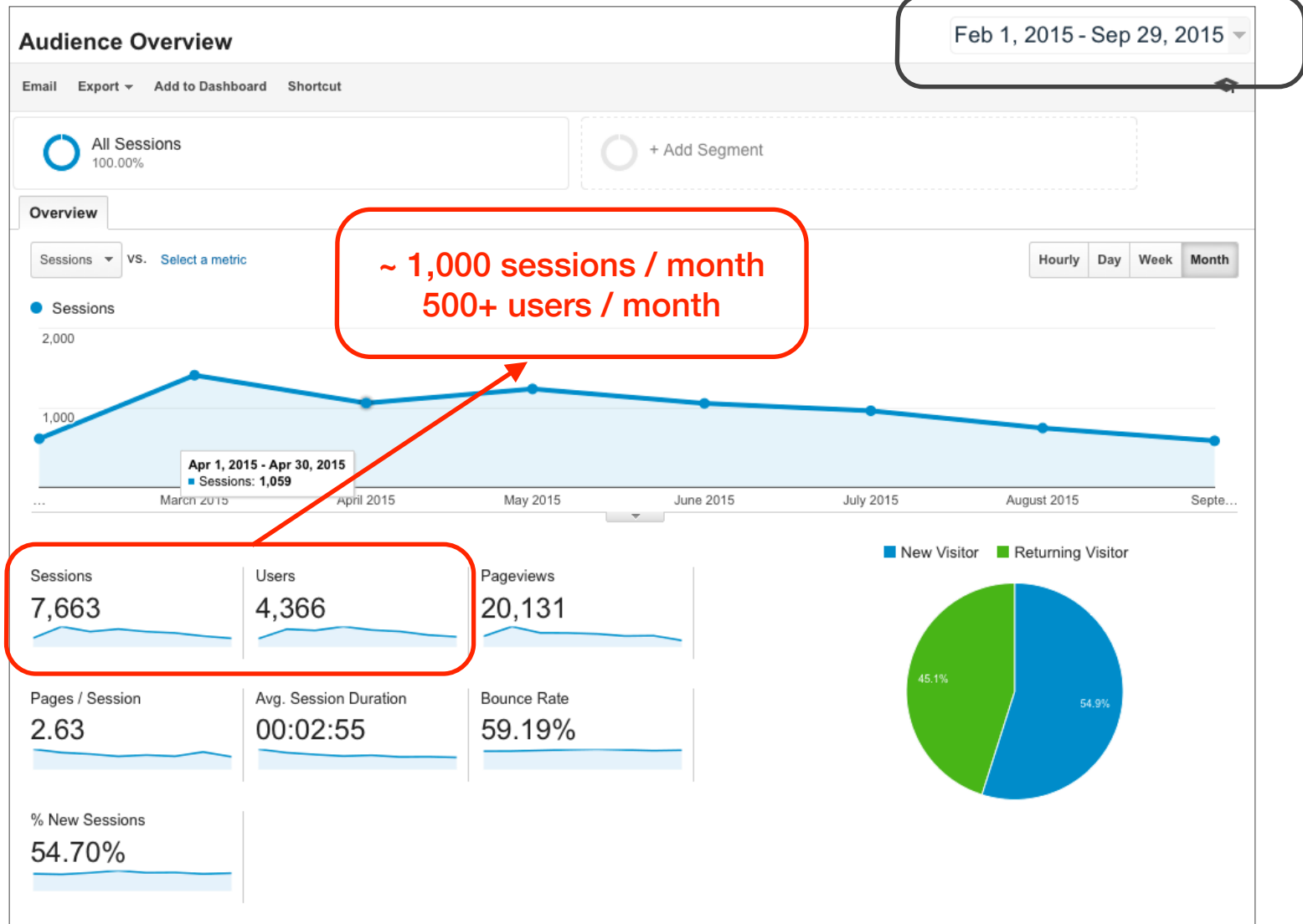


## ▶ telbib access statistics























# telbib access stats

8 months





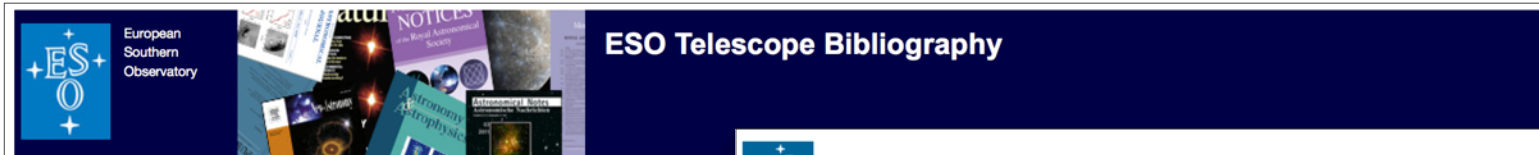
# telbib access stats

Country	Sessions	% Sessions
1.  United States	1,322	 17.25%
2.  Germany	1,015	 13.25%
3.  Italy	692	 9.03%
4.  France	481	 6.28%
5.  Chile	442	 5.77%
6.  United Kingdom	434	 5.66%
7.  Japan	289	 3.77%
8.  Spain	260	 3.39%
9.  China	239	 3.12%
10.  Netherlands	236	 3.08%





# telbib → ESO archive



**TELBIB SEARCH**

NEW SEARCH  EDIT SEARCH

[← back to results](#)

**DETAILED INFORMATION**

**Author(s)** Weiß, A.; De Bruck, C.; Marrone, D. P.; Vieira, J. D.; M.; Biggs, A. D.; Bleem, L. E.; Bock, J. J.; Bothwell, M.; Crites, A. T.; de Haan, T.; Dobbs, M. A.; Downes, Halverson, N. W.; Hezaveh, Y. D.; High, F. W.; Holder, E. M.; Lueker, M.; Luong-Van, D.; Malkan, M.; McInty T.; Reichardt, C. L.; Rest, A.; Rosenman, M.; Ruel, J.; A.; Story, K.; Vanderlinde, K.; Welikala, N.; Williamson

**Title** ALMA Redshifts of Millimeter-selected Galaxies fr

**Keywords** cosmology: observations, early universe, galaxies: ov

**Abstract** [show abstract](#)

**Publication details** ApJ, 2013, vol. 767, p. 88-

**BibCode** 2013ApJ...767...88W

**Fulltext (via ADS)** [ADS](#)

**Citations (from ADS)** 70 26

**Further information** <http://www.eso.org/public/news/eso1313/> (Press Rel

**Instrument(s)** ALMA\_Bands, FORS2, LABOCA, SABOCA, Z-Spec

**Telescope(s)** ALMA, APEX, PressRelease, VLT

**Site(s)** Chajnantor , Paranal , Staff+Instr , Surveys+PRs

**ProgramID(s)** 2011.0.00957.S (access to data), ALMA-Partner: Europe  
088.A-0902 (access to data)  
086.A-0793 (access to data), APEX-Partner: ESO  
086.A-1002 (access to data), APEX-Partner: ESO  
087.A-0815 (access to data), APEX-Partner: ESO  
087.A-0968 (access to data), APEX-Partner: ESO  
Max-Planck data, APEX-Partner: Max-Planck

**ESO Archive Query Results**

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To request data please select the datasets in the results table by marking the checkbox in the left-most column, then press the **Request marked datasets** button. (You will be prompted for your ESO User Portal username and password. If you do not yet have an ESO User Portal account, please fill out the [registration form](#).)  
Datasets for which the proprietary period is over are highlighted in **green** and are publicly available.  
Datasets that are still under the proprietary period are highlighted in **red** and can only be downloaded by the corresponding PI.  
Datasets that are not yet available in the Archive are marked with a "N/A".

M	More	HDR	OBJECT	Target Ra, Dec	Program ID	Instrument	Category	Type	Mode	Dataset ID	Release Date	Exptime
<input checked="" type="checkbox"/>		<a href="#">Header</a>	SLIT	21:03:32.09 -60:32:53.4	<a href="#">088.A-0902(A)</a>	ISAAC	CALIB	SLIT	IMAGE	ISAAC.2011-10-10T00:03:14.712	Oct 10 2011	2.889
<input checked="" type="checkbox"/>		<a href="#">Header</a>	SLIT	21:03:32.09 -60:32:53.4	<a href="#">088.A-0902(A)</a>	ISAAC	CALIB	SLIT	IMAGE	ISAAC.2011-10-10T00:03:34.262	Oct 10 2011	2.889
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<input checked="" type="checkbox"/>		<a href="#">Header</a>	SPT017	21:03:31.35 -60:32:48.1	<a href="#">088.A-0902(A)</a>	ISAAC	SCIENCE	OBJECT	SPECTRUM,NODDING	ISAAC.2011-10-10T00:07:14.440	Oct 29 2012	180.000
<input checked="" type="checkbox"/>		<a href="#">Header</a>	SPT017	21:03:32.82 -60:32:58.6	<a href="#">088.A-0902(A)</a>	ISAAC	SCIENCE	OBJECT	SPECTRUM,NODDING	ISAAC.2011-10-10T00:10:32.965	Oct 29 2012	180.000
<input checked="" type="checkbox"/>		<a href="#">Header</a>	SPT017	21:03:32.82 -60:32:58.6	<a href="#">088.A-0902(A)</a>	ISAAC	SCIENCE	OBJECT	SPECTRUM,NODDING	ISAAC.2011-10-10T00:13:44.354	Oct 29 2012	180.000
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**ProgramID(s)** 2011.0.00957.S (access to data), ALMA-Partner: Europe  
088.A-0902 (access to data)  
086.A-0793 (access to data), APEX-Partner: ESO  
086.A-1002 (access to data), APEX-Partner: ESO  
087.A-0815 (access to data), APEX-Partner: ESO  
087.A-0968 (access to data), APEX-Partner: ESO  
Max-Planck data, APEX-Partner: Max-Planck

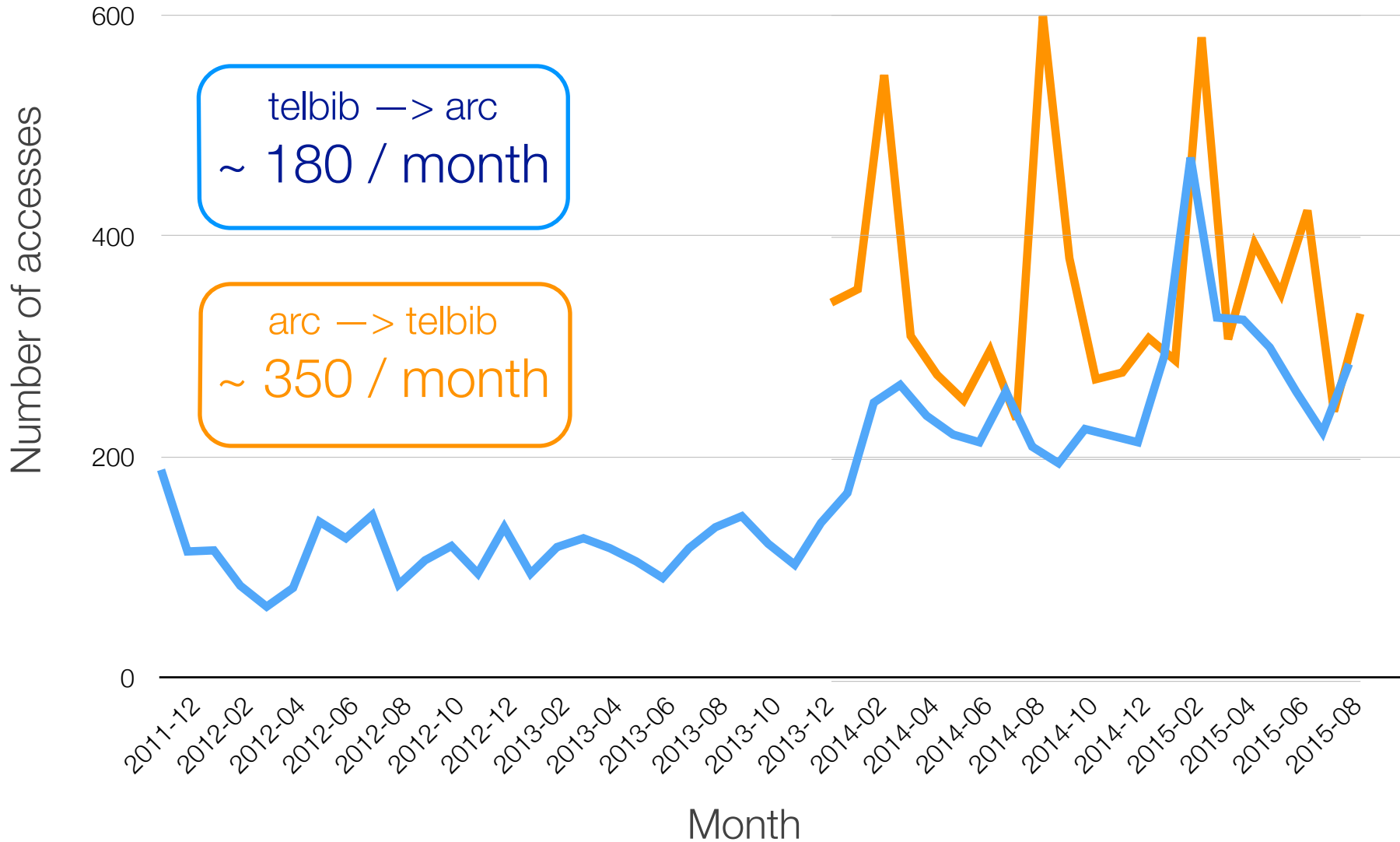
access to data

ESO Library — SciOps 2015





telbib → ESO archive → telbib





## ► telbib use cases



## telbib use cases

Number of publications  
and citations see:

[www.eso.org/sci/libraries/edocs/ESO/ESOstats.pdf](http://www.eso.org/sci/libraries/edocs/ESO/ESOstats.pdf)



## Basic ESO Publication Statistics

Prepared by:  
Uta Grothkopf & Silvia Meakins  
ESO Library Garching  
European Southern Observatory (ESO)  
[library@eso.org](mailto:library@eso.org)

Version 6.2, May 2015



## telbib use cases (VLT/MLTI data papers)

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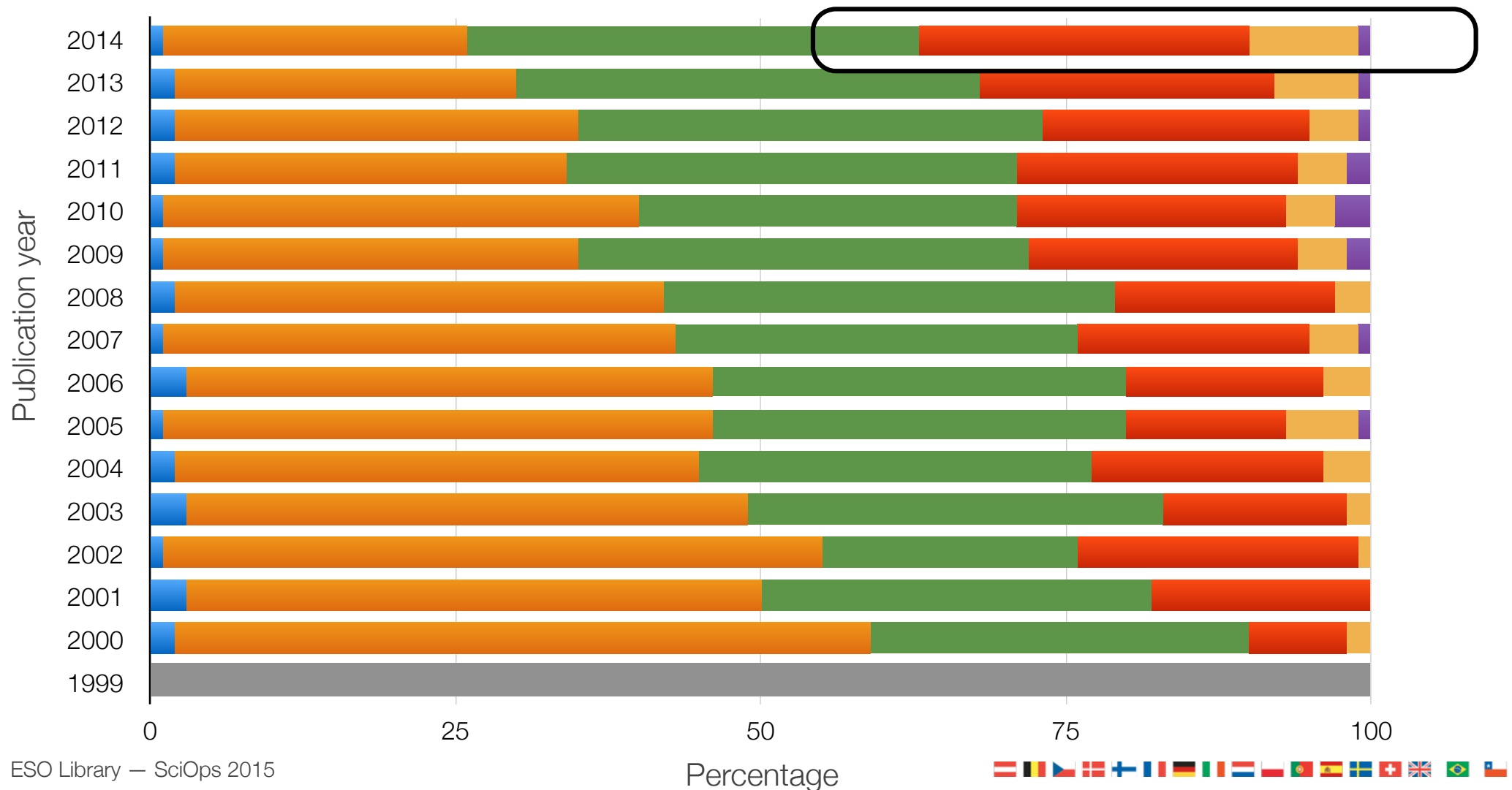
1. Number of authors per paper
2. Number of programs per paper
3. Fraction of archival papers
4. Overlap with other observatories
5. Impact (relative to AJ papers)



# 1. Number of authors per paper

pub years 2000 - 2014 total = 5,941 papers

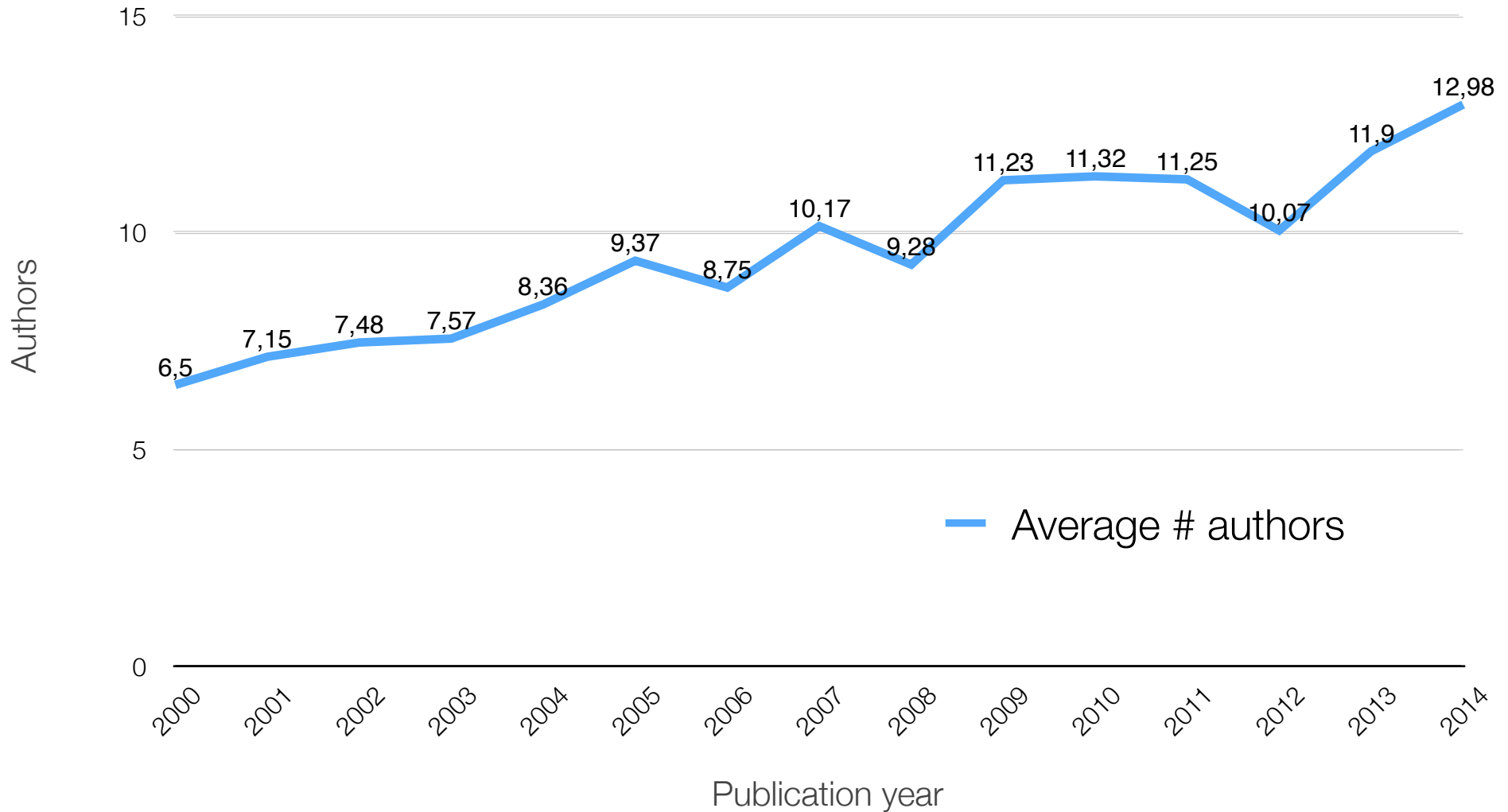
1 2-5 6-10 11-30 31-60 >60





# 1. Number of authors per paper

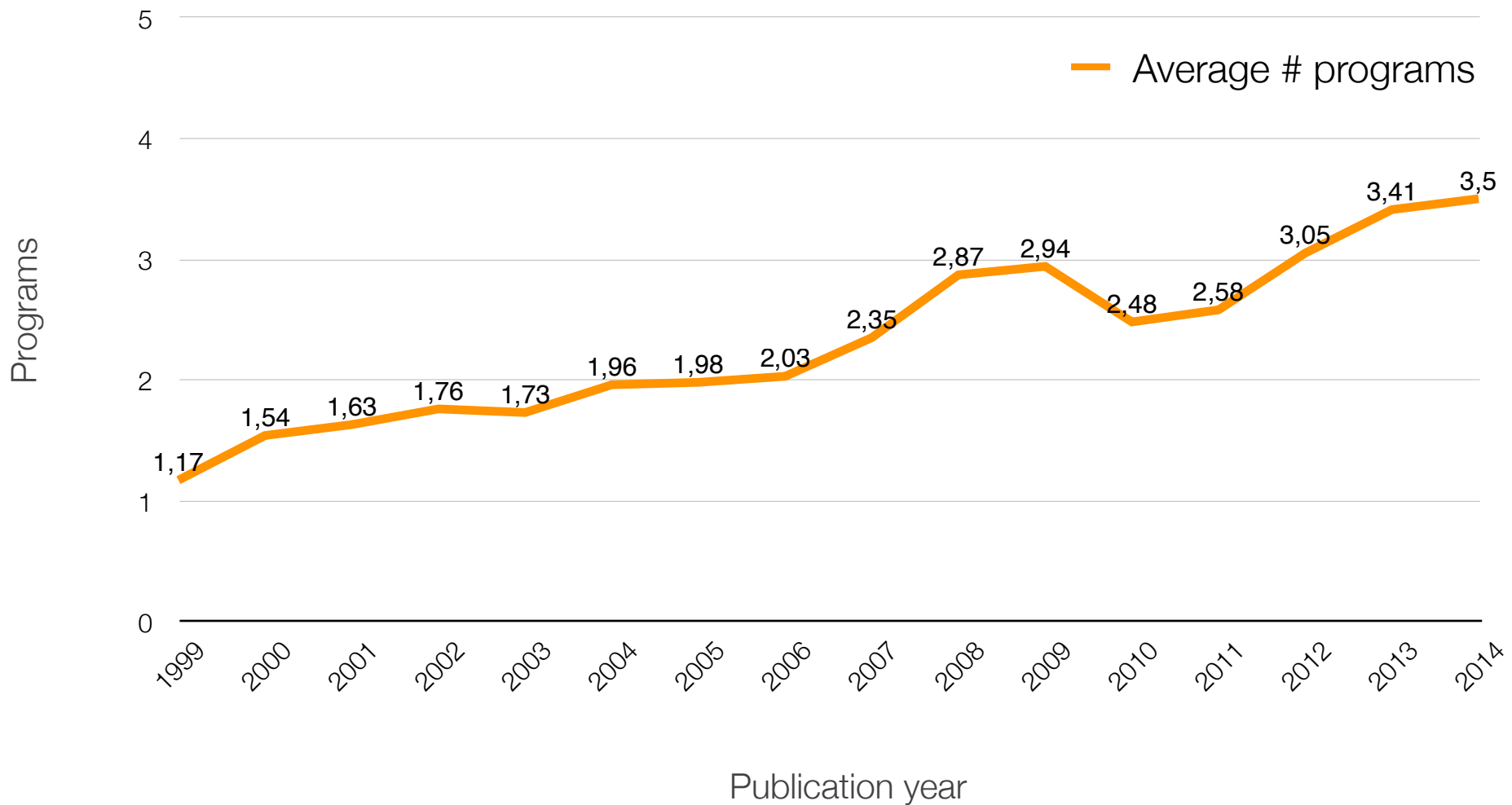
pub years 2000 - 2014 total = 5,941 papers





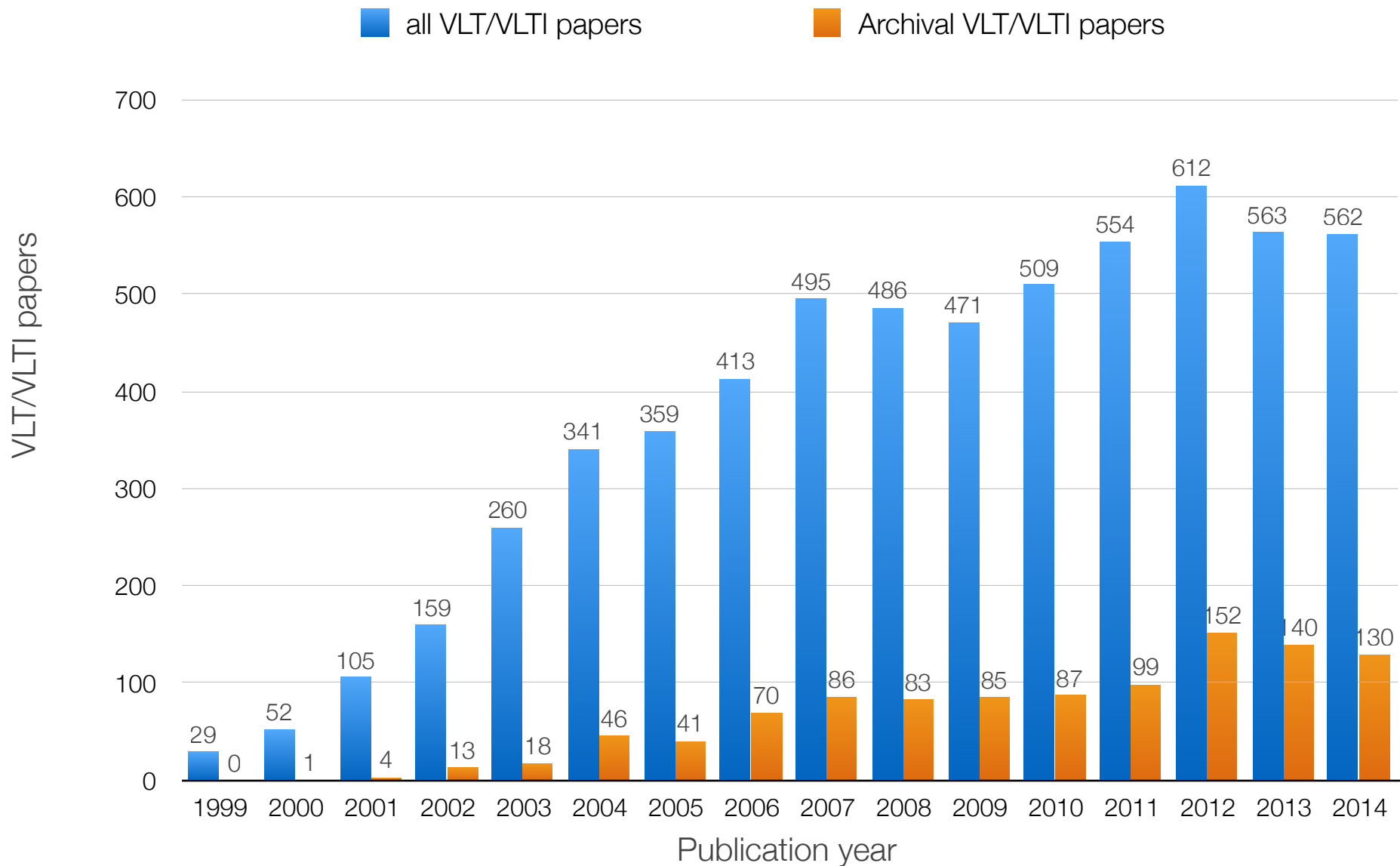
## 2. Number of programs per paper

pub years 1999 - 2014 total = 5,970 papers





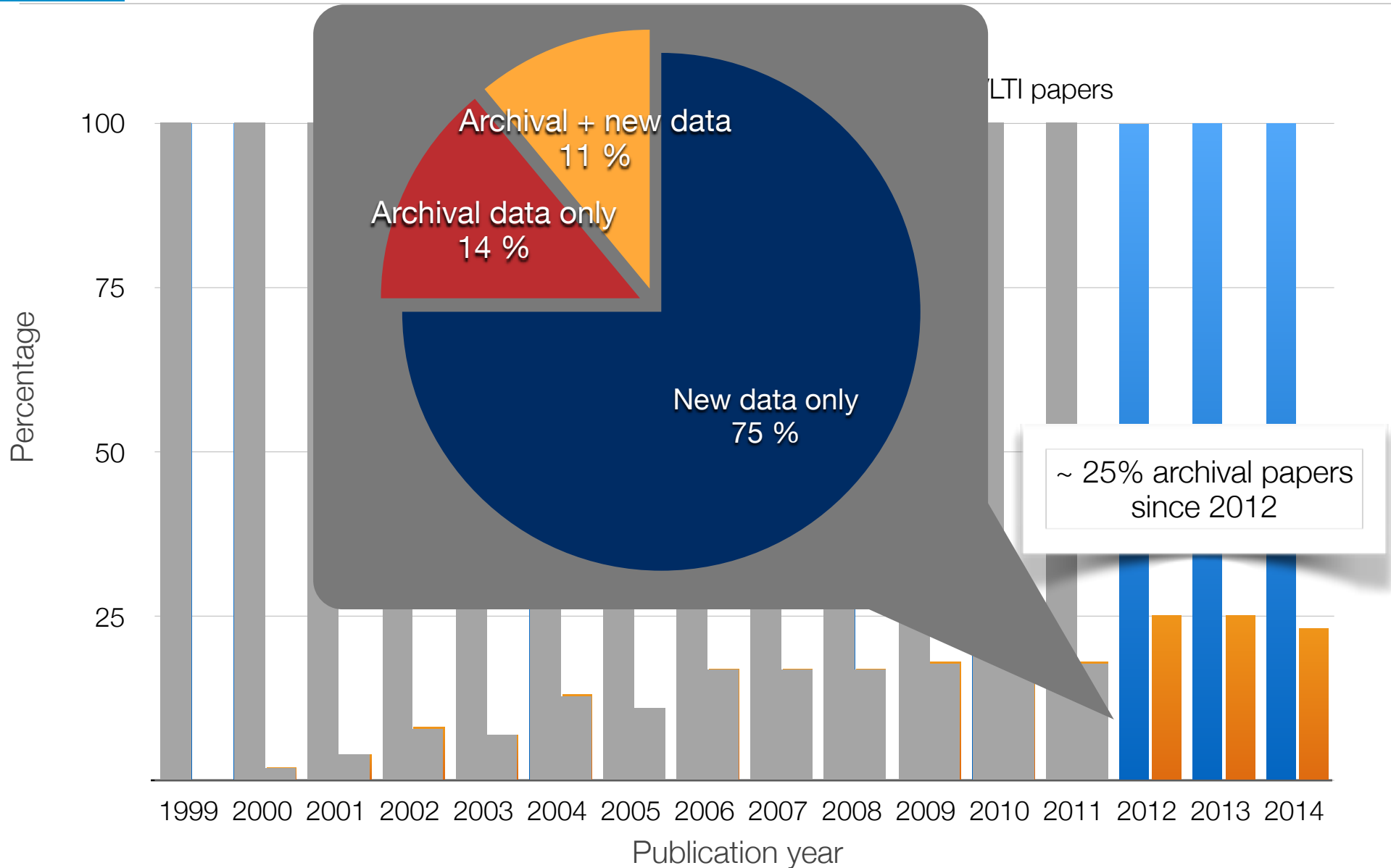
### 3. Archival papers





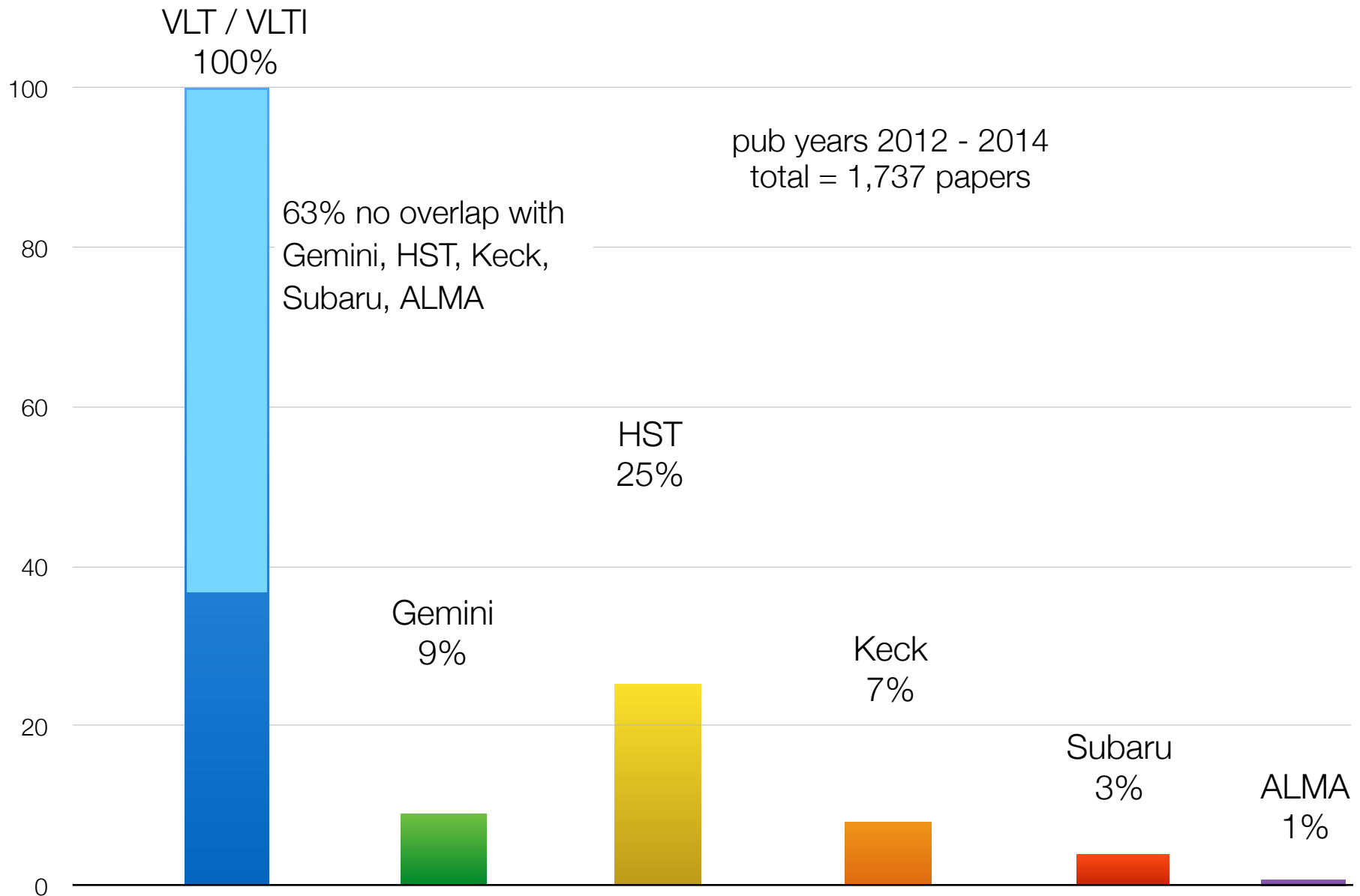


### 3. Archival papers — percentage



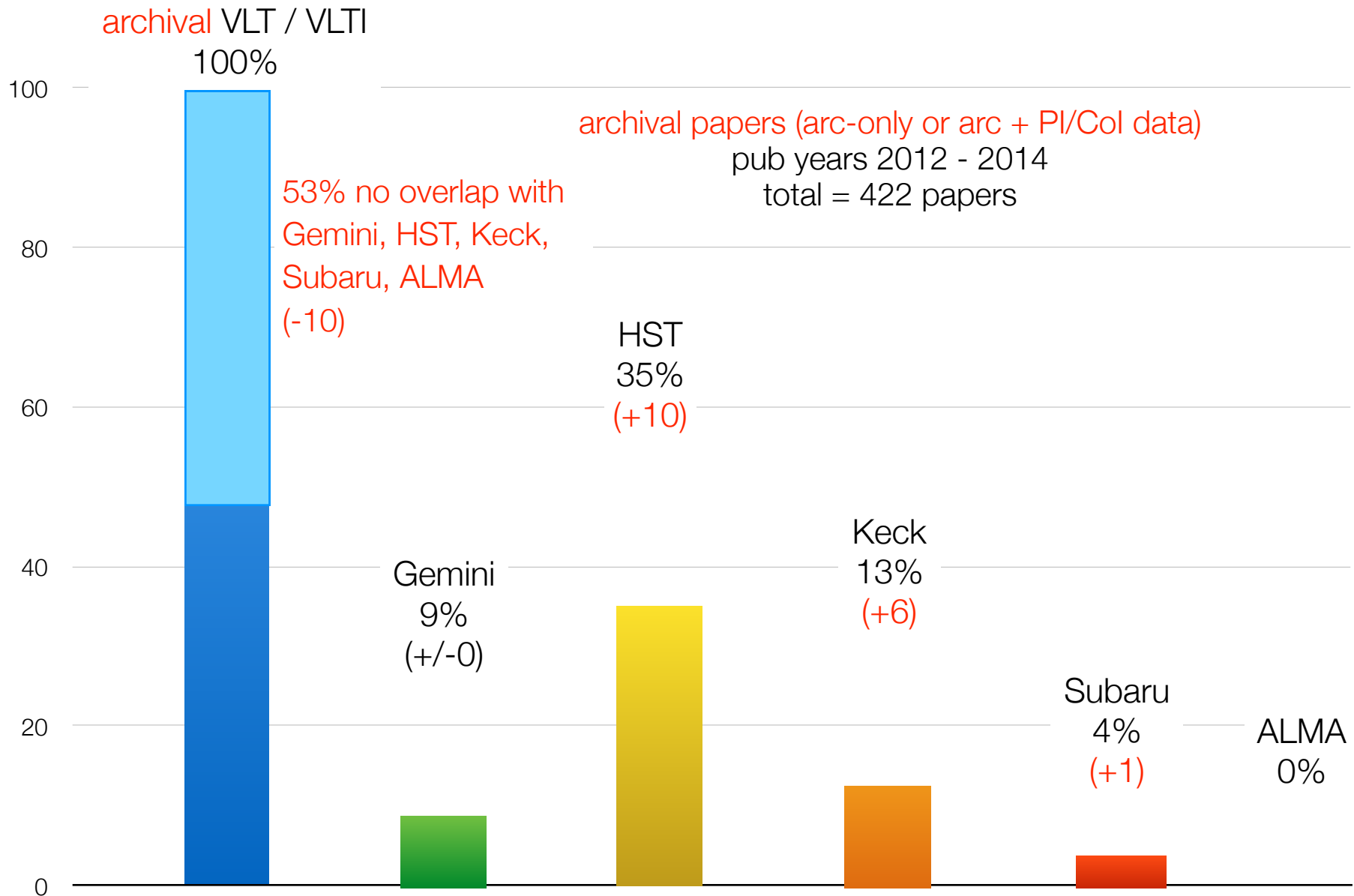


## 4. Overlap with other observatories



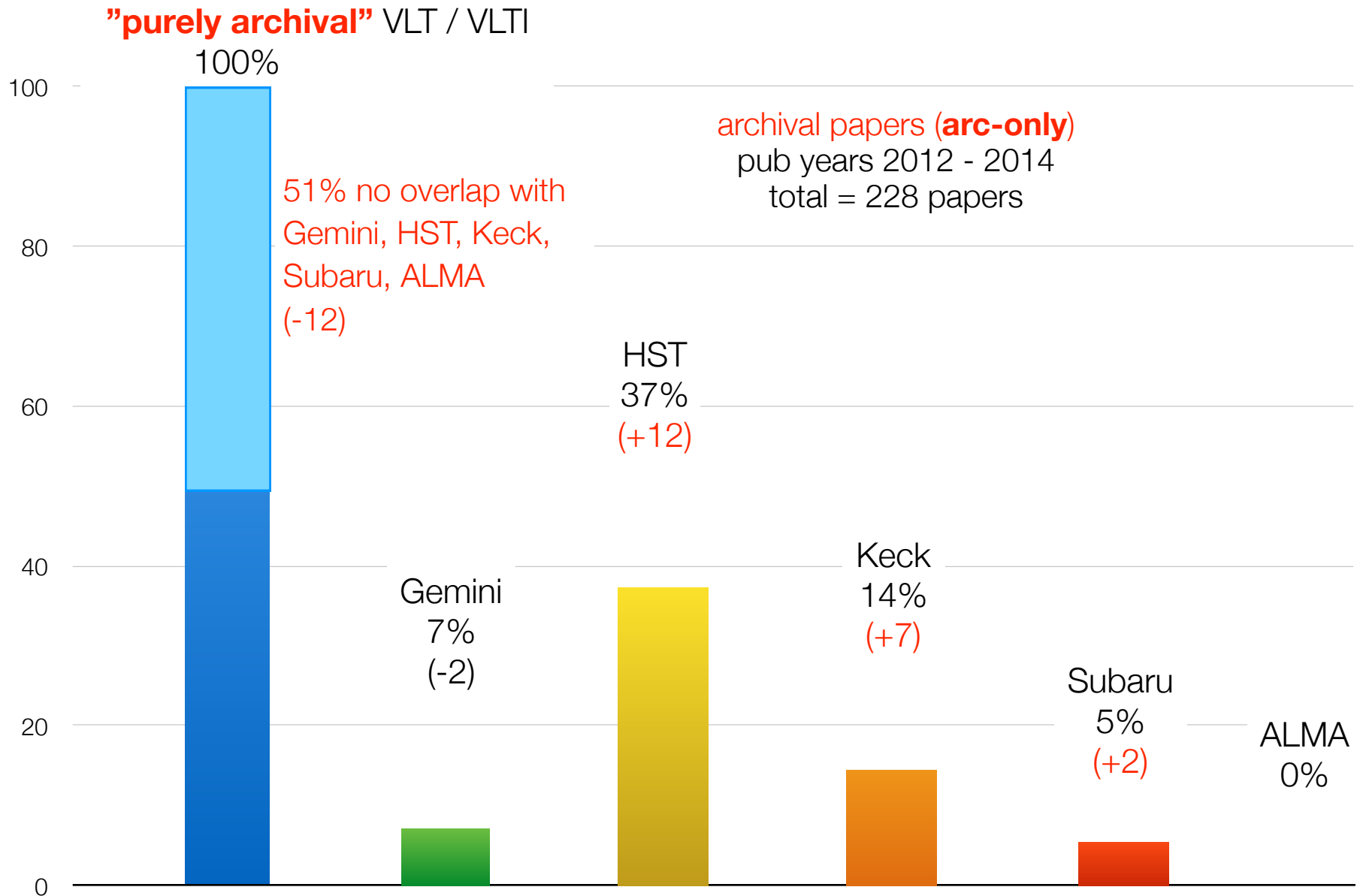


## 4. Overlap with other observatories





## 4. Overlap with other observatories



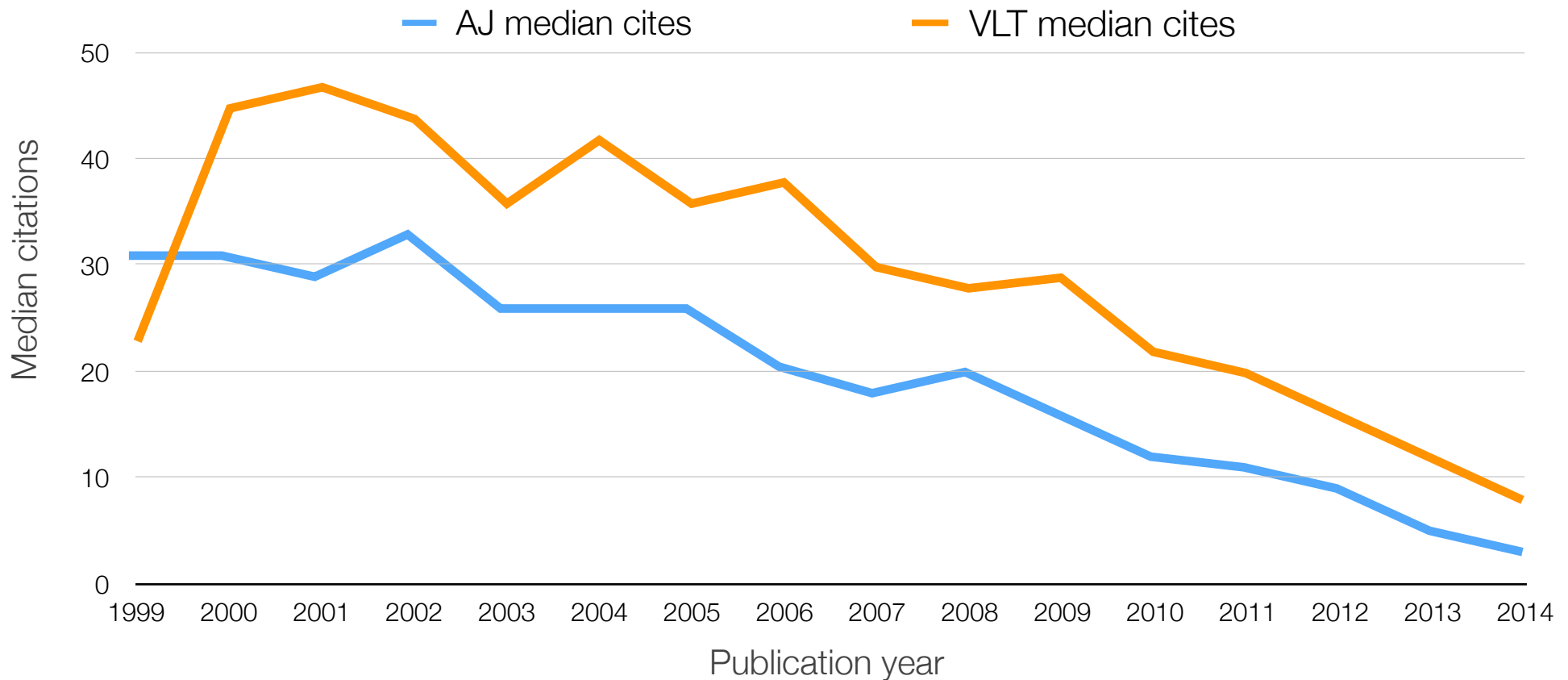


## 5. Impact (relative to AJ papers)

Impact:

**Median # of citations** relative to **median # of citations of AJ** papers of the same year.

(D. Crabtree)



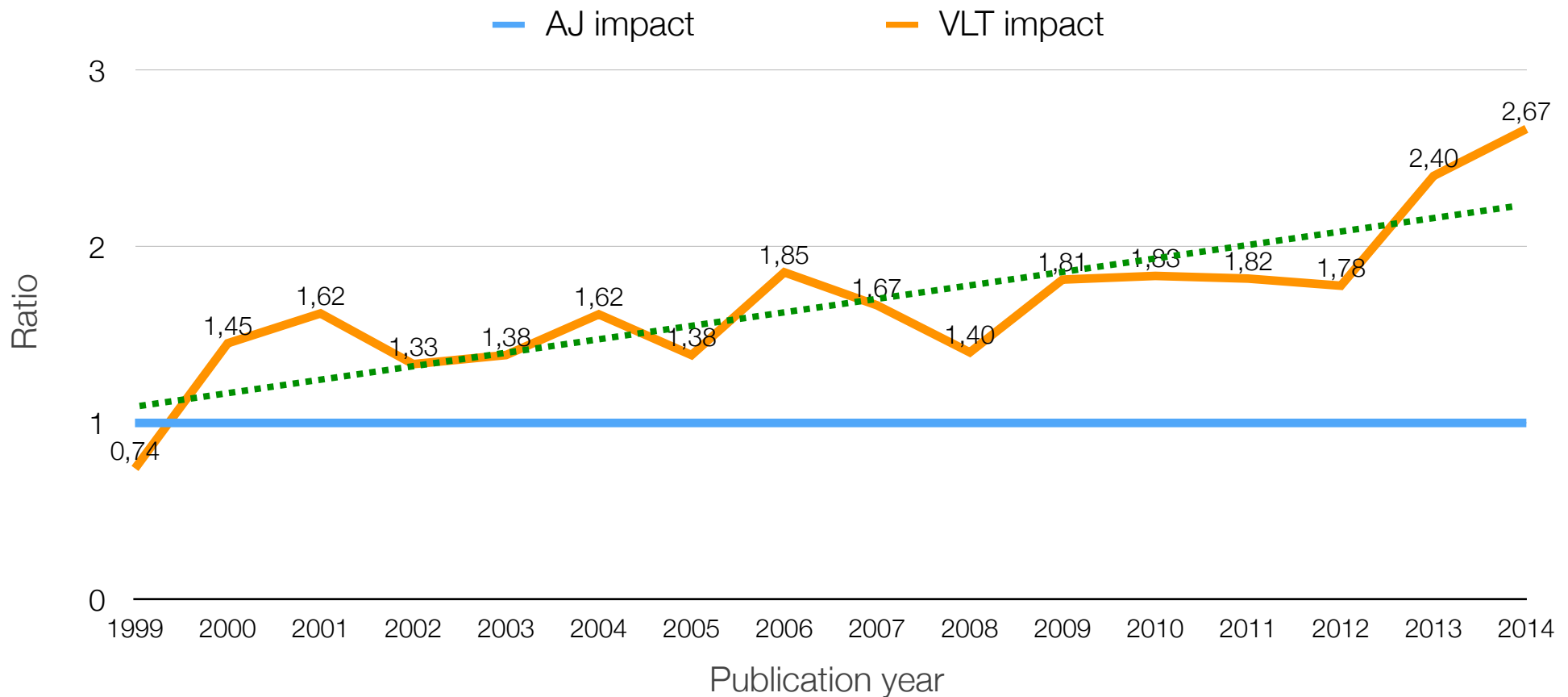


## 5. Impact (relative to AJ papers)

Impact:

**Median # of citations** relative to **median # of citations of AJ** papers of the same year.

(D. Crabtree)





# Image and other credits

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Takeway points, Data curation: <http://infomotions.com/blog/wp-content/uploads/2010/12/idcc10.png>  
<http://blogs.nd.edu/emorgan/2010/12/6th-international-data-curation-conference/>

Takeway points, Insights: <http://www.telerox.com/solutions/consumer/consumer-insights/>

Takeway points, Facets: <http://www.projectinsight.net/i/features/project-insight-features.png>

The ESO telescope bibliography depends critically on the services provided by NASA's Astrophysics Data System.