ESO Public Survey

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Outline

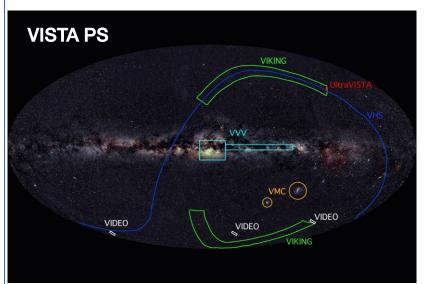


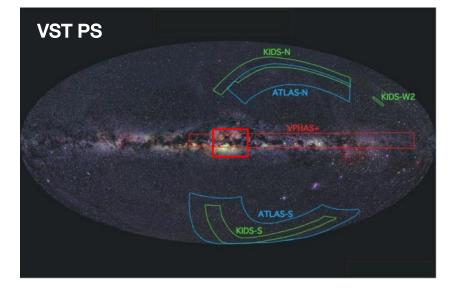
- Progress ESO PS VISTA, VST, and Public Spectroscopic Surveys
- Second VISTA Call for ESO Public Survey
- Phase 3 releases from ESO Public Surveys
- Statistics on access to and download from ESO Science Archive Facility



Public Surveys

- Observing programs lasting more than 2 years time allocation O(1000) hrs
- Legacy value for astronomical community at large
- All raw observations are immediately public
- Survey teams commit to deliver reduced images/spectra and catalogues within ~yearly releases







ESO Public Surveys

- Six VISTA public surveys They are in their 6th year of SM operation (t₀= April 2010)
- Three VST public surveys They are in their 5^{th} year of SM operation (t_0 = Oct 2011)
- Two spectroscopic public surveys They are in their 4th year of VM operation (t₀= Jan 2012)
- Two VIMOS spectroscopic surveys They started VM operation in P94

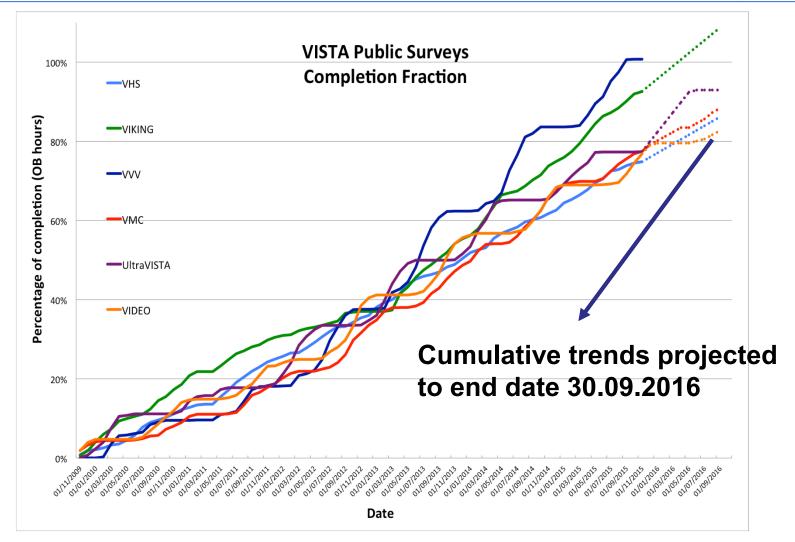
ESO is managing 13 Public Surveys on its telescopes (La Silla NTT, VLT, VISTA, VST)

More than 600 astronomers involved as PI-Col from the community



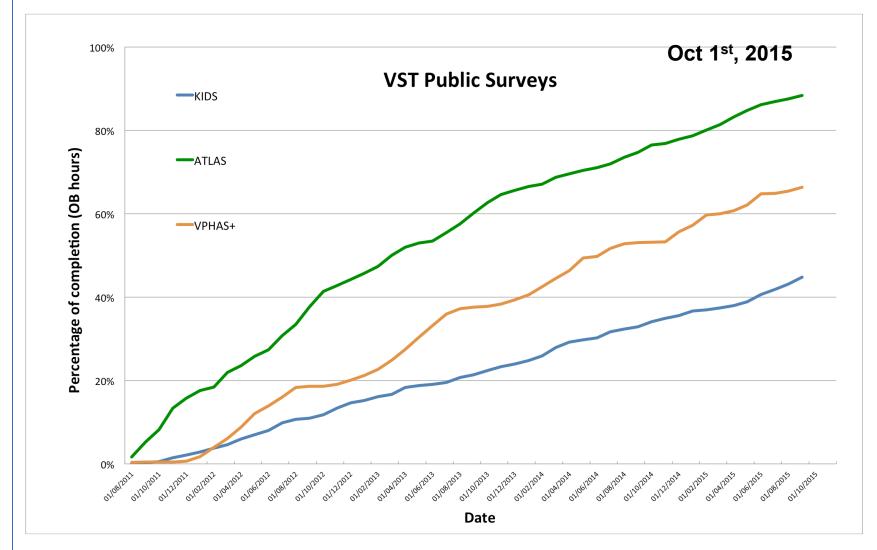
ESO Public Survey status – VISTA

Dec 15th, 2015



VHS, VVV => percentage accounts for the additional allocation following Joint VISTA/VST review

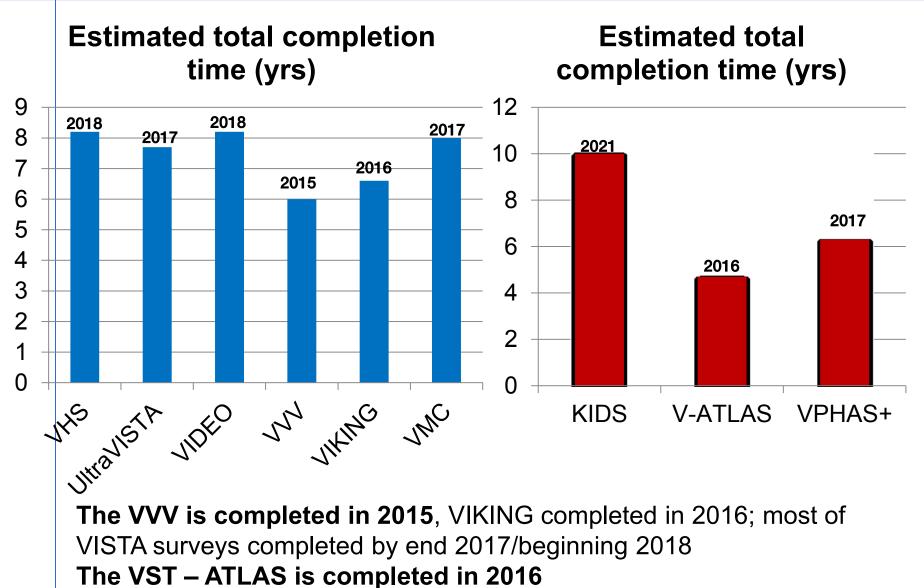
ESO Public Survey status - VST



V ATLAS => percentage accounts for the updates allocation following Joint VISTA/VST review

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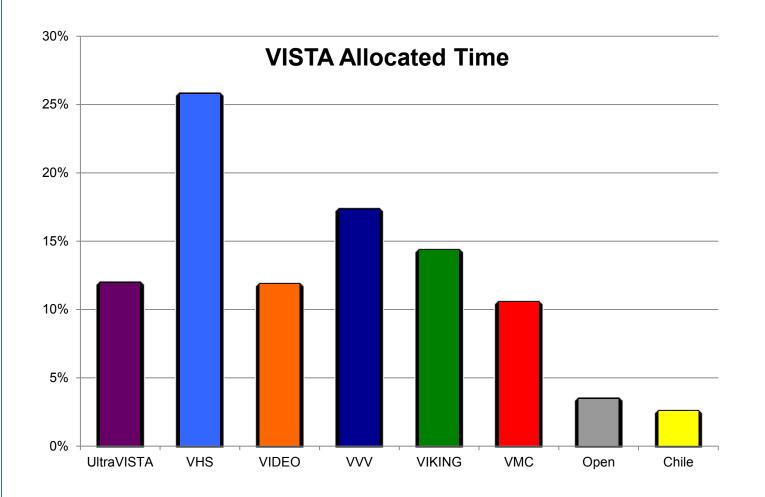


ESO Public Survey status

Survey	Obs hrs completed	Tot. time allocated (SMPs)	Compl. fraction
VVV	2157	2142	101
VMC	1423	1837	77
VIKING	2038	2200	93
UltraVISTA	1394	1801	77
VIDEO	1447	1869	77
VHS	3554	4710	75



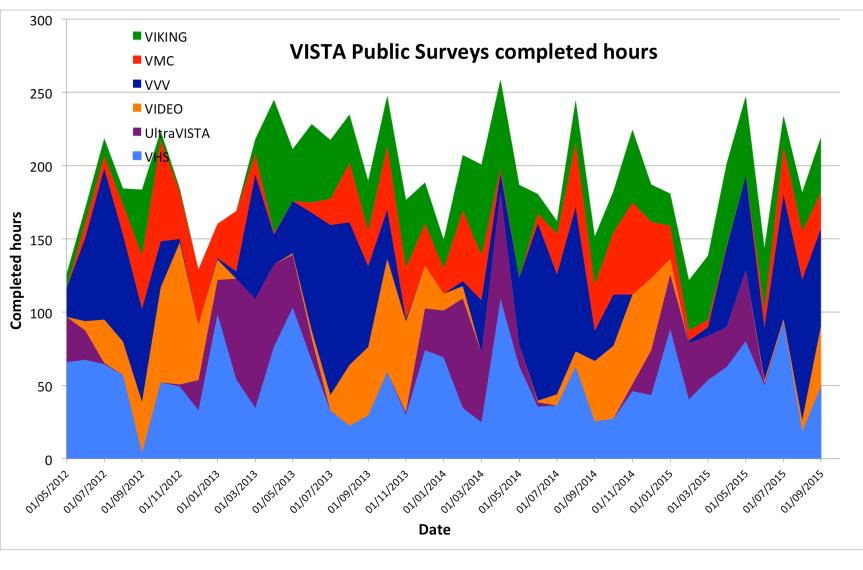
VISTA ALLOCATED TIME



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VISTA Public Survey: completed hours



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ESO Public Spectroscopic Surveys – Gaia ESO & PESSTO

- The Gaia-ESO survey started operation on January 1st, 2012 on FLAMES at the VLT at Unit Telescope 2 (Kueyen) on Paranal - 4 + 1 yrs
- Time allocation of the survey entails 60 nights each year
- Thus far 254.5 nights were allocated to this survey
- The PESSTO survey started operation on April 1st 2012, on EFOSC and SOFI at NTT on La Silla – 4 + 1 yrs
- The time allocation of the survey include 90 nights each year, with allocation 60/30 nights in odd and even periods
- Thus far 350 nights were allocated to this survey
- <u>PSSP review completed:</u> 5th year approved for both surveys and technical/weather compensations for Gaia-ESO (47n)

ESO Public Spectroscopic Surveys –VIMOS

- Two VIMOS public surveys : VANDELS (PI: McLure, Petericci) LEGA-C (PI: van der Wel)
- Extragalactic surveys targeting the UDS/CDFS and UltraVISTA/Cosmos fields
- VIMOS PS to be carried out in Visitor Mode &SMPs published on ESO web pages 01.2015
- VANDELS => 1525 hrs scheduled in VM; 12 nights runs in SEP, OCT, NOV, DEC, JAN & 5 nights runs in Aug. To be completed in 4 years
- LEGA-C => 956 hrs scheduled in VM: 10 nights runs NOV,DEC,JAN,FEB,MAR, APR . To be completed in 4 years; LEGA-C successfully observed about 310 hrs
- VANDELS & LEGA-C will share half nights



Second VISTA call for ESO Public Survey

- Second VISTA Call opened on July 2015
- Time of allocations starting during P98 (October 2016)
- Limited to approximately three years due to the arrival of 4MOST at VISTA
- Observations will be carried out in service mode
- Letter of Intent (LoI) submitted Over subscription > 2
- 13 Lols received by OPO, 13 Pis & 517 co-ls,
- Total time requested 14021 hrs (+30); 7470 available (2490h x 3yrs)
- PIs of current VISTA surveys submitted extended reports, with requests for compensation/extension of their programs
- The Public Survey Panel (PSP) reviewed Lols & Pis' requests
- Letters to teams by end of January 2016. Successful Lols will be invited to submit proposals for P98



Phase 3 releases from ESO Public Surveys

- Phase 3 process completed for 10 Public
 - VISTA DR3, VST DR2
 - SPSs: GaiaESO, PESSTO DR2
- Sky coverage >11500 sq.deg
 - Opt./NIR: 4336 / 9445 sq.deg
- Tot. data volume: >35 TB
 - 270k+ files
 - >29k spectra
- High-level science catalogs for all surveys
 - Including light curves for variable sources!



Public survey data releases 2015

Date	Survey	Data
Sep 2015	VST ATLAS	Stacked ugriz images and source lists. 2000-3000 sq.deg. observations until Sep 2013. 5 TB.
Aug 2015	VVV	ZYJHKs photometric catalogues. 418 Mio. sources. 2.5 Billion Ks photom. points. 13 Mio. variables. Including observations until Sep 2011.
Aug 2015	PESSTO	1728 EFOSC2 and SOFI spectra and 392 reduced SOFI images. Associated catalogs.

Two releases published in 2016: final release ZCOSMOS bright (20k spectra and redshift catalog) and APEX ATLASGAL survey (emission maps and catalog)

Feb 2015	VMC	PSF photometry
Feb 2015	VHS	14 TB imaging data including observations until Sep 2013 + band-merged catalog of 590 Mio sources
Feb 2015	KiDS	Images and catalogues including data acquired until Sep 2013. 148 sq.deg. source catalog 17 Mio. sources.
Jan 2015	VMC	YJKs photometric catalogue from 7 completed tiles (10.5 sq.deg) + multi-epoch photometric data + catalogs of Cepheids and Eclipsing binaries.
Oct 2014	VIKING	Images and catalogues including data until Sep 2013. 690 sq.deg + 46 Mio. sources catalog with band-merged photometry.





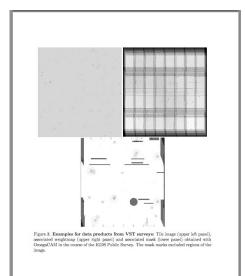
Science Archive Facility http://archive.eso.org

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Tools and Documentation									
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FAQ ESO Data Access Policy	Latest News and Updates								
	New Data Release of VVV Photometric Catalogues via the ESO Science And Ve Facility (21 Aug 2015) More news To browse the archive Currently, raw data and various types of data products cance reached via different interfaces:								
	Category	Access Point	Data collection	Data Type	Instruments				
	LPO Raw Data	Raw data query form (alteristruments) Instrument specific query forms Direct retrieval or faw data by file name	All ESO raw data	Various	Many La Silla Paranal instruments				
	LPO Data Products	rose 3 main query form rosse 3 imaging query form Phase 3 spectral query form Phase 3 VIRCAM-specific query form	Phase 3 Data Products (ESO public surveys; ESO pipeline-reduced products; Large programs: GOODS, zCOSMOS; etc.)	Currently, Imaging and Spectroscopy	Various Pipeline products for UVES, XSHOOTER, HARPS, and more to come.				
		Catalogue Facility query interface	Phase 3 Catalogues [ESO User Portal authentication required also when browsing]	Catalogues	Various				
		FEROS and HARPS-Polarimetry pipeline processed data query form	FEROS and HARPS-Polarimetry pipeline processed data	Spectroscopy	FEROS, HARPS-Polarimetry, HARPS reduced calibrations (other HARPS see Phase3 above)				
		Other Advanced Data Products (available only as downloadable packages, no query form)	Various (30 Doradus, Corot, GaBoDs, etc.)	Spectroscopy Imaging Flux maps	FEROS WFI APEX				
		Science Verification, Commissioning, EIS, etc. (no query form)	Full list of available data packages	Various	Many				
	APEX Quick Look Products	APEX query form	APEX	Heterodyne, Bolometer	APEX-2A, LABOCA, SABOCA, SHeFI				
	LPO	Scheduling query form	ESO Observing Programme		All La Silla Paranal instruments,				

Information and Scheduling

including APEX

New: Documentation of Reduced data products n the ESO Phase 3 archive



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		\bigcirc	Y band image of the UDS field	1	2014-10-01
Query Request		\bigcirc	zCOSMOS Spectroscopic Redshift Survey	1	2014-03-21
		Query	Request		

Science Catalogue Data

11 public surveys delivered science catalogs.

19 (out of 29) new catalogs published this year.

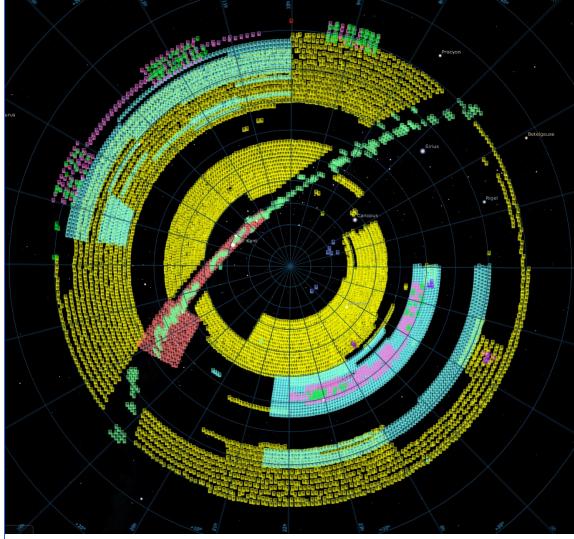
variety of catalog types, e.g. variables, redshift catalogues etc.

Largest catalog: >2.5 billion photom. data points (VVV)

PIF Obs Am Use Dat Dat ES



Phase 3 releases from ESO Public Surveys

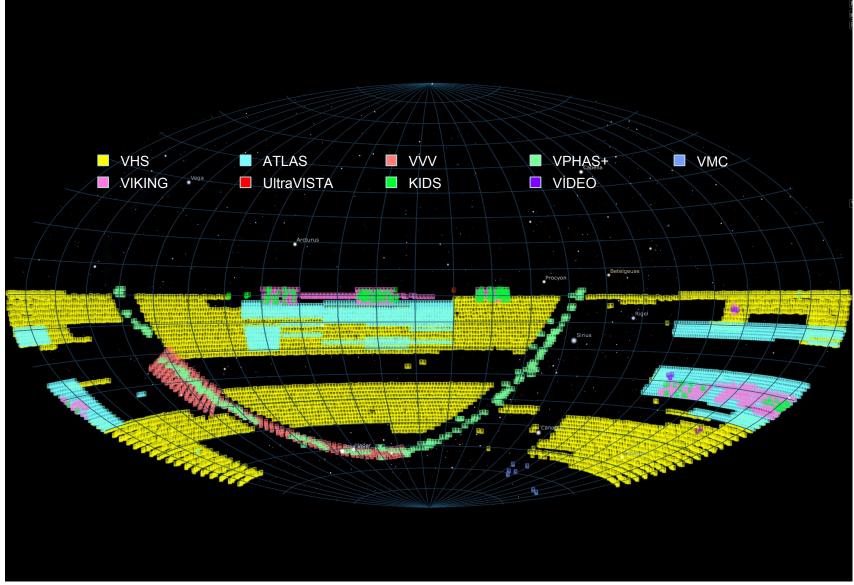


STATUS: more than 35 TB of SDPs have been ingested and published through the ESO SAF in 2014/2015

The VISTA & VST public survey DPs released through the Phase 3 process in 2014/2015 cover almost 11500 square degrees of the Southern Hemisphere. VPHAS+ VIDEO **VVV** VHS KiDS VIKING. VMC - blue UltraVISTA ATLAS

+ES+ 0 +

Phase 3 releases from ESO Public Surveys



Relea	ase	0
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Phase 3 da organized t

- Public sevey, •
- pipeline rocessed • data,
- large programs etc.

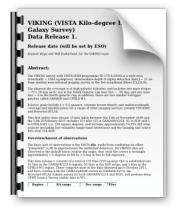
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		vith ESO Teleso	Intranet icopes > Phase 3 > Data Releases	Contact Site Map Sea		Go! Oct 2015			
	Science Users Information Observing Facilities Future Statilities and Development Observing with ESO Telescopes Policies and Procedures Telescope Time Allocation Phase 1 Proposals Phase 2 Preparation Phase 3 Overview	 Data d V V S Data m 	w of the Phase 3 Data Release delivered by ESO Public Survey projects: VISTA Surveys VST Surveys Spectroscopic Surveys reduced by ESO delivered by other programmes				as	nks to the sociated da	
	Phase 3 Policies		ESO Programme	Data Release PUBLIC VISTA SURVEYS	Date	Access	ac	ocumentation	
	Release Manager Release Validator Phase 3 FTP Upload Questions and Answers	Ultra- VISTA	Ultra Deep Survey with VISTA	Deep co-added, resampled images and associated source lists per band (2nd data release) YJHKs and NB118 catalogue (based on the 1st data release)	24.01.2014 24.09.2012	≅ ± ≊ ±		nks for	
	News and Changes Data Releases Public Surveys	VIKING	VISTA Kilo-degree Infrared Galaxy Survey	ZYJHKs images and associated source lists of completed survey tiles covering ~690 sq.deg ZYJHKs band-merged catalogue	29.10.2014			a Access	
	Observing Tools and Services Visiting Astronomers Science Software	VMC	VISTA Magellanic Survey	YJKs images and associated source lists for 7 survey tiles (4th updating data release) YJKs band-merged catalogue	26.11.2014 07.01.2015		Dal		
	Data Handling and Products Science Archive Facility Science Activities Science Publications Science and Technical Meetings			Catalogue of known Capheids Y band photometric light curves J band photometric light curves		2 ± 2 ± 2 ±			
	IT Services Libraries Vacancies			Ks band photometric light curves Catalogue of Eclipsing Binary stars PSF photometry catalogue	13.02.2015				
		VVV	VISTA Variables in the Via Lactea Survey	ZYJHKs images and associated source lists in the disk and bulge region	09.03.2015				
rviev	N			Catalogue of Variables Multi-Epoch Ka-Band Photometry		≧ ↓			
relea		VHS	VISTA Hemisphere Survey	YJHKs images and associated source lists ^(**) YJHKs band-merged catalogue ^(**)	24.02.2015	± ±			
	1969	VIDEO	VISTA Deep Extragalactic Observations Survey	VIDEO-XMM field: ZYJHKs images and associated source lists VIDEO-XMM field: ZYJHKs band-merged catalogue	16.02.2015	Ŧ			
				VIDEO-CDFS field: images and associated source lists ZYJHKs band merged catalogue in the CDFS1 field	26.02.2015	± ≦ ±			
vey,				VIDEO-ELAIS S1 field: images and associated source lists ZYJHKs band merged catalogue in the ELAIS S1 field	26.03.2015	≝ ± ±			
roces	sed	KIDS	The Kilo Degree Survey	PUBLIC VST SURVEYS ugri stacked images and associated source lists u.g.r.i band-merged catalogue	05.02.2015	≧ ±			
		VST- ATLAS	The VST ATLAS Survey	ugriz images and associated source lists	16.09.2015	-			
rams	etc.	VPHAS+	VST Photometric Ha Survey of the Southern Galactic Plane and Bulge	ugri and Ho images and associated source lists u.g.r.i band-marged catalogue PUBLIC SPECTROSCOPIC SURVEYS	12.05.2015 30.07.2015	_			
		Gaia-ESO	Spectroscopic Survey of the Milky Way	1-dimensional wavelength-calibrated spectra Catalogue of photometry and stellar properties	21.07.2015	≧ <u>↓</u> ↓			
		PESSTO	Spectroscopic Survey of Transient Objects	1-dimensional wavelength and flux calibrated spectra, with accompanying NIR imaging of bight sources	03.08.2015				
				Light curves	05.08.2015				



atlas_dr1.pdf



video_cdfs_dr1.pdf







Data Release Description

Provide short broad overview of the program, with an overview/layout of the observations

Essential input for data content validation.

Release content

Extended listing for each sky position, filters, exposure times, seeing

Release notes

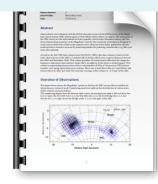
 Reduction method used, calibration procedures, data quality

Data format

• Description of files in this data release , associated files, and naming conventions

Acknowledgements

• Bibliographic reference to be included when using these data.







vhs_dr2.pdf







viking_dr1.pdf

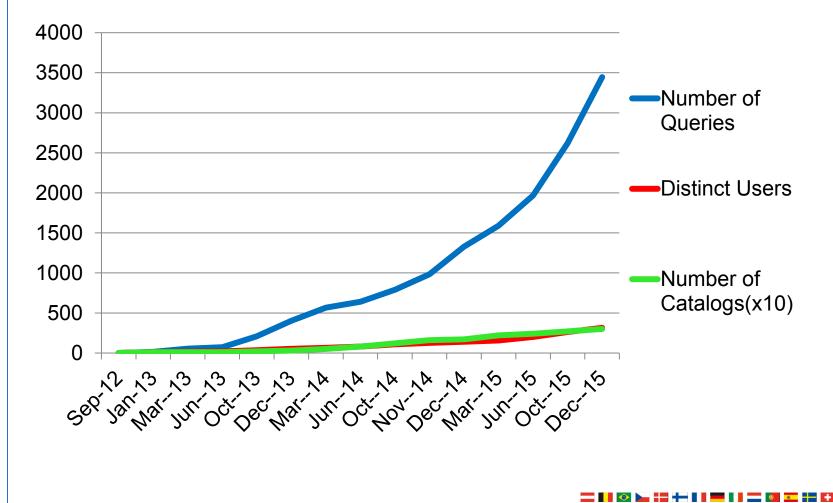
vmc_dr2.pdf

vphasplus_dr1.pdf



Statistics: ESO Science Archive Facility -Access and Download

Access to the ESO archive catalogue query interface: all catalogues have been queried for!





Statistics: ESO Science Archive Facility -Access and Download

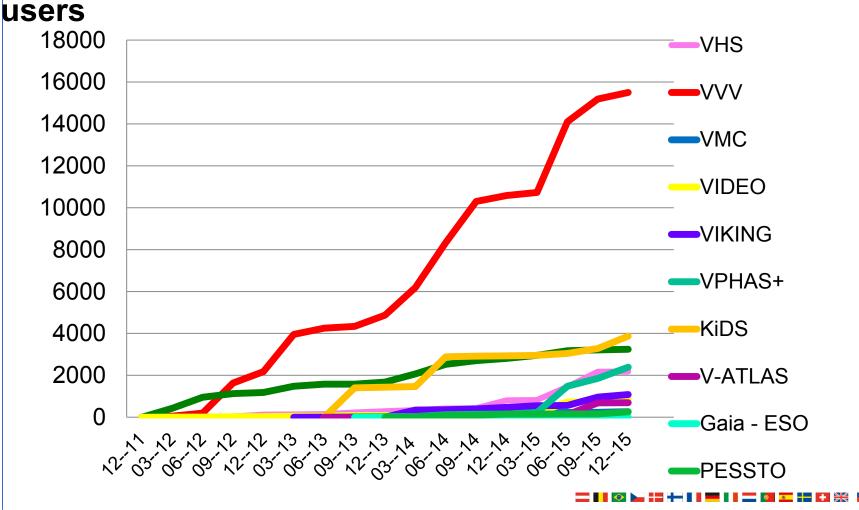
Collaboration with CDS

- Independent evaluation of catalogue data (format and metadata) and quality criteria => full endorsement!
- added science content to the catalogue data,
 i.e. cross matching with other
 wavelengths/data, and further dissemination in
 the VO
- Extension of the ESO policies for data access and publication when data are retrieved via VO tools



- Statistics: ESO Science Archive Facility Access and Download

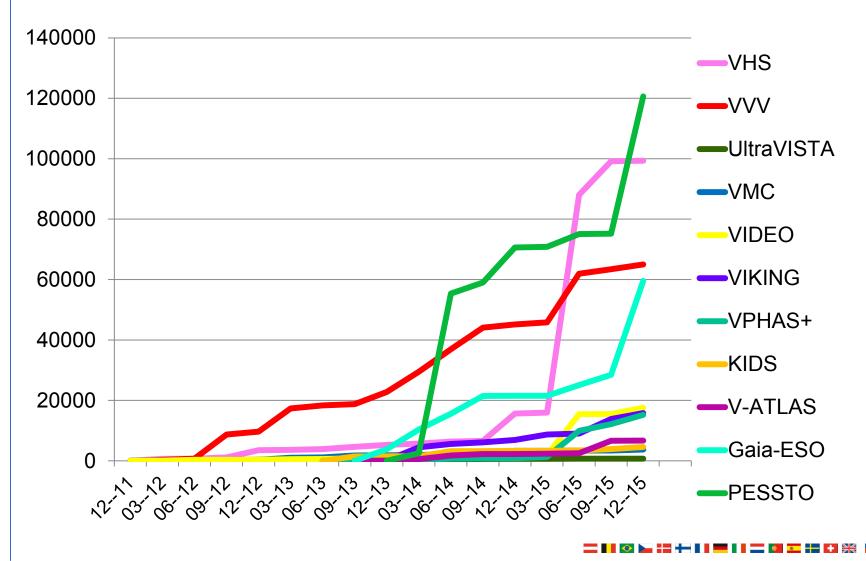
Data volume download from ESO SAF of public survey products: all surveys have been accessed by archive





Statistics: ESO Science Archive Facility -Access and Download

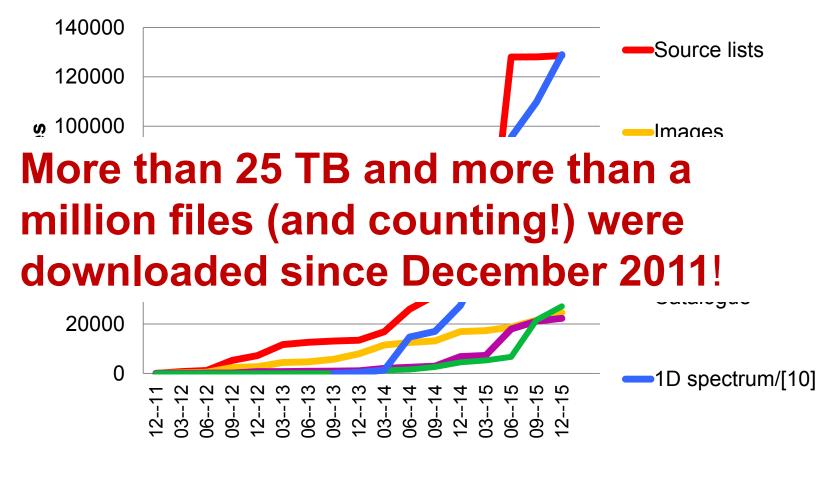
Number of files download from ESO SAF of public survey products





- Statistics: ESO Science Archive Facility Access and Download

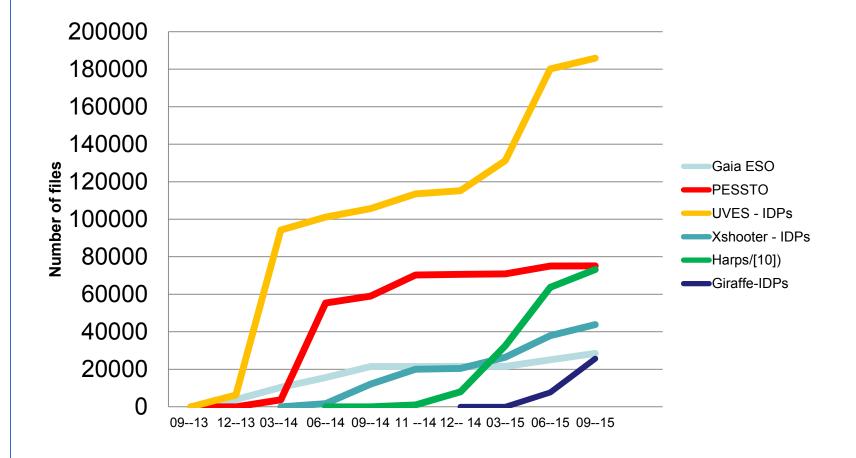
Number of files and products download from ESO SAF for public surveys & IDPs: all types of SDPs have been accessed/ downloaded





Statistics: ESO Science Archive Facility -Access and Download

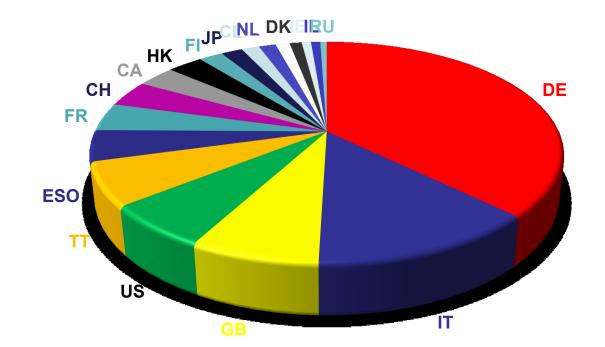
Number of files and products download from ESO SAF for spectroscopic surveys & internal data products (UVES/Echelle, Xshooter/Echelle, GIRAFFE-Medusa and Harps 1D spectra)



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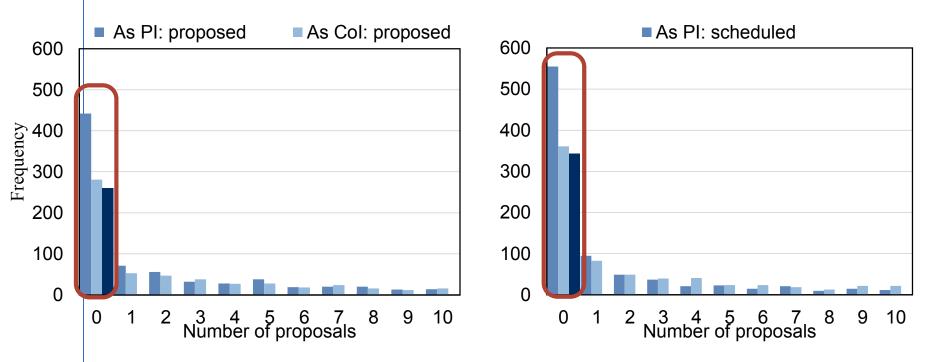
Statistics: ESO Science Archive Facility -Access and Download



Cumulative statistics of SURVEYS by COUNTRY starting Dec-2011 up to Dec-2015 included

Statistics: ESO Science Archive Facility -Access and Download

Phase 1 habits of archive users: **Data products**



- SAF data products users: 28% (260) have never applied for time, neither as PIs nor co-Is; 37% (344) have never gotten time, neither as PIs nor co-Is
 - ► For comparison, 1/3 of the Phase 1 PIs have never got time

▖▖▖▖▖▖▖▖



Highlights

Refereed publications from VISTA Public Surveys

- ESO/Telbib census
- VHS 21, UltraVISTA 44, VVV 79, VIDEO 22, VIKING 17, VMC 22, V-ATLAS 6, KIDS 9, VPHAS+ 7, Gaia ESO 33, PESSTO 25, Archival 47

Cumulative queries reduced products

- Number of distinct requests: 9000
- Number distinct account IDs:1221 Implications of the above figures of merit
- Archive users query for reduced products more than once(on average)
- The number of archive users using reduced products for their science is more than <u>twice</u> the number of listed PIs/CoIs of ESO public surveys' proposals



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