



# Closing Remarks

Santiago, Chile

2017 October 27-29

Mark Allen  
& Pepi Fabbiano

IVOA Interoperability Meeting  
Santiago, Chile, 29 October 2017

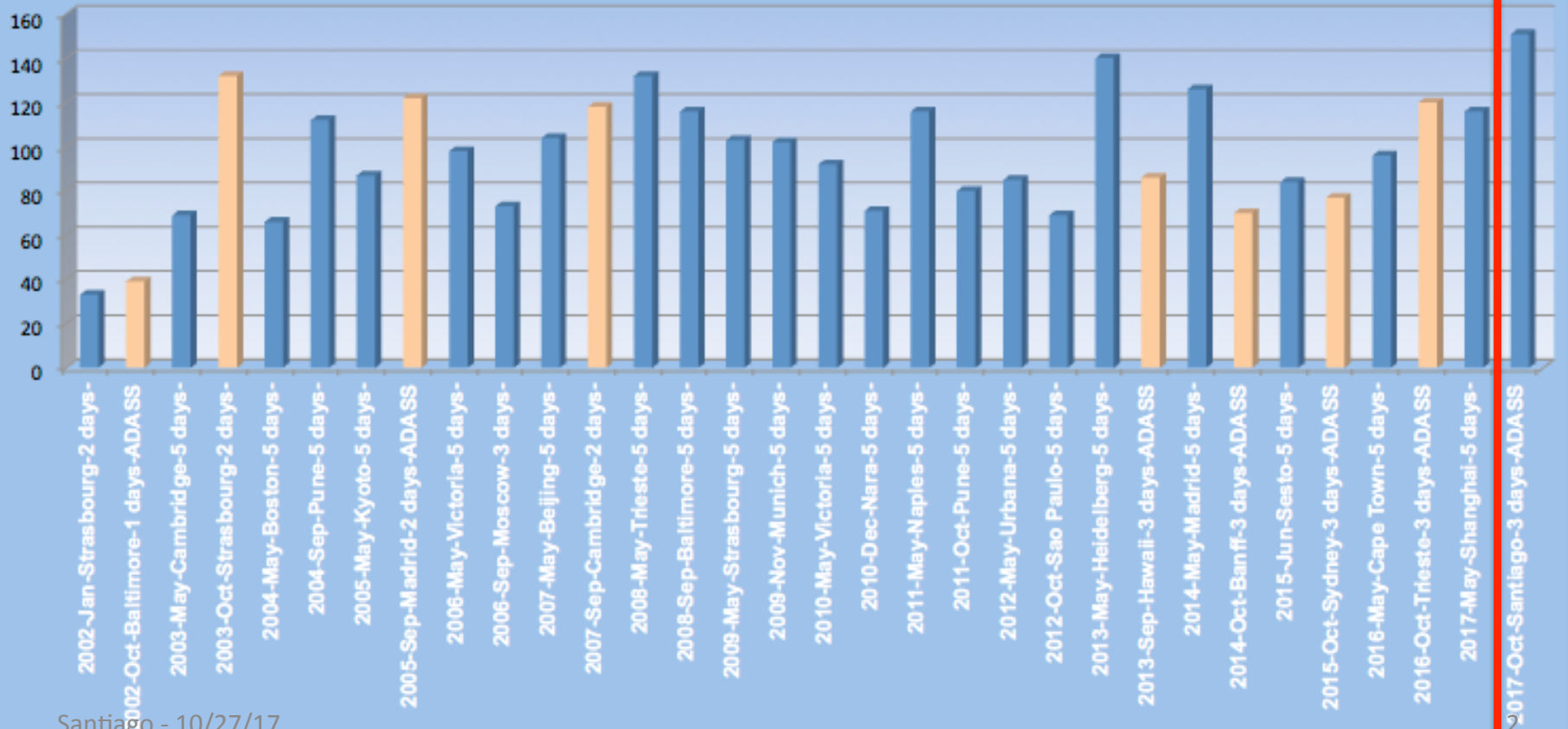
MA supported by





# The Greatest Attendance so far

Number of Participants per IVOA Interoperability Meeting





# Reflections

- High quality professional discourse
- Very good presentations
- Development of Time Domain priority area
- Improvement of core IVOA standards
- KDD – operating as an IG, driving innovation with good ideas



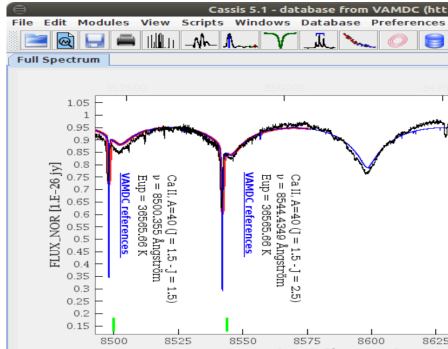
- Engagement
  - participation by stakeholders
  - Links to big upcoming projects
- Responding to community needs/trends – notebooks, computing near the data etc.
- ADASS/IVOA – VO everywhere
- Many challenges remain
  - Timescales for standardisation and effort needed for implementation...
  - Support for VO infrastructure and sustainability

# Media Group!



**@IVOAstro**

- Please make contributions to the IVOA newsletter – by Nov 6 please 😊



Xamin Web Interface

Query Pane

Results: Query table(s) Find matches Count matches in... selected HEASARC tables

Target for search: Observation epoch (ISO, MJD or JD) Irbcode  
 Position: (00 45 26.11 +40 59 13.8) From: (instant or start of range) Code:  
 Radius: (80.67233333333333; min) To: (end of time range) YYYY@HHMMSSPPAA

Available tables: Master observation tables, Popular Missions (480), All Missions (625), Alphabetic (948), Region (396), Type (259), External

Selected tables (1 selected): messier

name	alt_name	ra	dec	constell	dimension	vmag	vmag_mincent	class	_offset
1	M 32	NGC 221	00 42 42.0	40 52 00	AND	8.6	null	6300	31.8384
2	M 31	NGC 224	00 42 42.0	41 16 00	AND	17.8963	3.4	6200	35.1657
3	M 110	NGC 205	00 40 24.0	41 41 00	AND	17.810	8.0	6300	70.4354



Sky-Mapper-NG

Image Observations

- XMM-OM (UV)
- XMM-Newton (Soft X-ray)
- Chandra (Soft X-ray)
- XMM-OM (Optical)
- SUZAKU (Soft X-ray)
- INTEGRAL (Hard X-ray)

log Overlay Coverage Tool View Interop Help

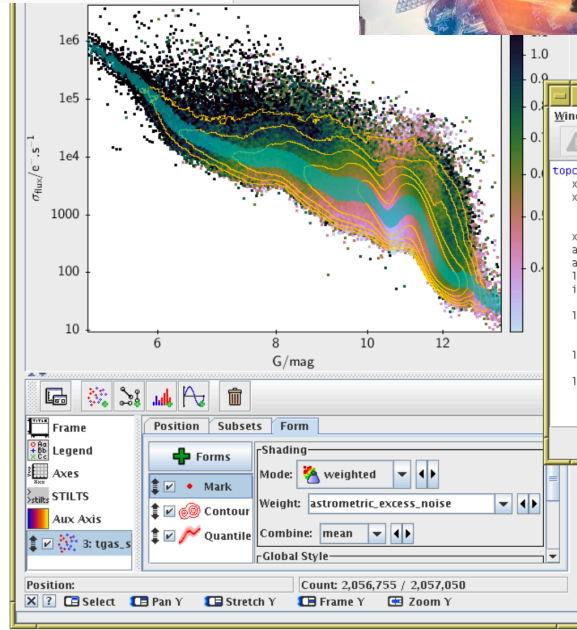
→ 1424 / 20236

Command D74.03992-31.22912

- DSS
- SDSS
- 2MASS
- GALEX
- AKAR
- skymapper\_U

1424 / 20236

- 1424 / 18588
- 6132 / 13676
- Astrometric Data → 28 / 254
- The Tycho-2 Catalogue (Plog)
- The Hipparcos and Tycho Catalogue
- Carlsberg Meridian Catalogue (C)
- Catalogue of Positions of Bright Stars
- Hipparcos Input Catalogue, VizieR
- W1300 and W2300 Transit Grid
- General Catalogue of 33342
- HPM2 Cross-Identifications (I)
- Results of obs with the 6 inch
- First, Second and Third Herzs
- Visual Double Stars in Hippar
- International Reference Star
- Catalogue of Bright 1025 stars
- AKR3R (Smith 1990)
- AKR3R mean positions and p
- Perth 70: Positions of 24900
- B&V Naval Observatory Zon
- Southern Reference Star Cat
- Proper Motions in Cape Zone
- Sydney Southern Star Catalog
- Combined Lick-Voyager Refer
- Carlsberg Meridian Catalogue, VizieR
- XZ Catalog of Zodiacal Stars
- Carlsberg Meridian Catalogue, VizieR
- Carlsberg Meridian Catalogue, VizieR
- OGLE General Catalog of Star
- Cape Catalog of 20554 Farn
- HKE Sydney Catalog (Echsh
- II-Photometric Data → 33 / 320
- III-Spectroscopic Data → 24 / 226
- V-Combined data → 8 / 131
- VI-Miscellaneous → 5 / 42



```

In [4]: Simbad.SIMBAD_URL = 'http://simbad.harvard.edu/simbad/sim-script'
table = Simbad.query_region("m1", radius=0.05 * u.deg)

In [5]: aladin = ipyal.Aladin(fov= 0.25, target='m1')
aladin
  
```

skymapper\_U

CDS/P/DSS2/color

zoom

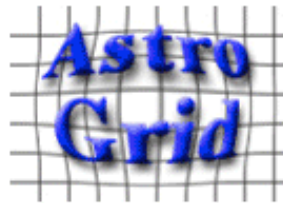
005 12270 005 75945

200.4" x 180"

- IVOA face-to-face meeting remains an essential focus for our coordinated work
- Following Oct interop is an important work period *Oct 2017 – May 2018*
- Actions defined at Interop should be followed up and supported by IVOA member organisations

# Looking forward

- **Full 5-day IVOA meeting in 2018** (28 May – 01 June )
  - Need to define Focus Sessions - CSP
  - Pre-Interop (student?) workshop
  - Significant change-over of important responsibilities (Exec / TCG / WG / IG )
  - Need for full-day TCG pre-meeting
  - Need for Exec presence
  - Preparation for IVOA at IAU GA







# IAU General Assembly

20 -31 August 2018, Vienna Austria

- IAU Inter-Commission B2-C1-C2 WG Data Driven Astronomy Education and Public Outreach (DAEPO) was launched
  - Chenzhou Cui chair
  - [https://www.iau.org/science/scientific\\_bodies/working\\_groups/305/](https://www.iau.org/science/scientific_bodies/working_groups/305/)
- **IVOA booth**
  - *Materials, tutorials, demonstrations,* interaction with astronomy community
  - ***Participation needed!***





# Open Universe

[http://www.unoosa.org/oosa/en/ourwork/psa/schedule/2017/workshop\\_italy\\_openuniverse.html](http://www.unoosa.org/oosa/en/ourwork/psa/schedule/2017/workshop_italy_openuniverse.html)

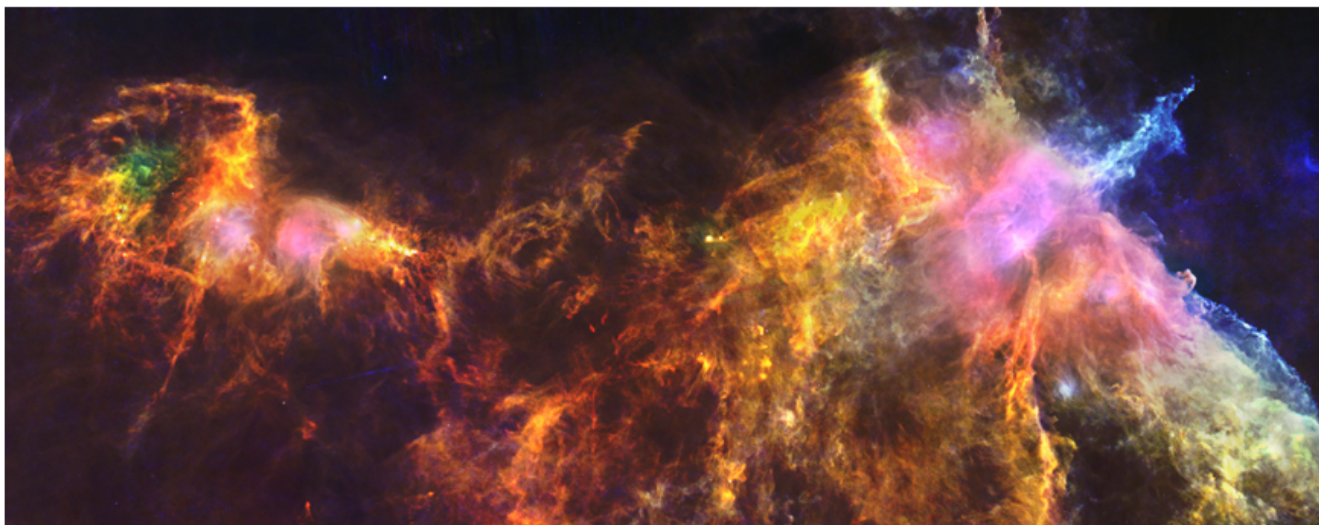


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## United Nations / Italy Workshop on the Open Universe Initiative

VIENNA, AUSTRIA, 20-22 NOVEMBER 2017

Organized by the United Nations Office for Outer Space Affairs and  
The Italian Space Agency, on behalf of the Government of Italy  
Hosted by the United Nations Office for Outer Space Affairs



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### VOA.net

- [Wiki Home](#)
- [WebChanges](#)
- [WebTopicList](#)
- [WebStatistics](#)

### Twiki Meta & Help

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- [Know](#)
- [Main](#)
- [Sandbox](#)
- [Twiki](#)

- [Twiki intro](#)
- [Twiki tutorial](#)
- [User registration](#)
- [Notify me](#)

### Working Groups

- [Data Access](#)
- [Data Model](#)
- [GWS](#)
- [Query Language](#)
- [Registry](#)
- [Stds&Procs](#)
- [Semantics](#)
- [VOTable](#)
- [Applications](#)

### Interest Groups

- [Data Curation](#)
- [Theory](#)
- [Education](#)

## Programme for October 2017 Interop in Santiago, Chile

Session	Time	Room	Session	Notes
<b>Thursday Oct 26, 2017</b>				
0	14:00-15:30	O'Higgins	IVOA Executive Meeting - Sheraton Convention Center	Exec and TCG members
<b>Friday Oct 27, 2017</b>				
1	09:00-09:15	San Cristobal	Welcome and Logistics	Mauricio Solar
	09:15-09:35		<a href="#">State of the IVOA</a>	Mark Allen (for Pepi Fabbiano)
	09:35-09:45		<a href="#">State of the TCG</a>	Patrick Dowler (for Matthew Graham)
	09:45-10:15		<a href="#">Charge to Working Groups</a>	WG/IG Chairs
	10:15-10:30		<a href="#">Science Prior</a>	
	<b>10:30-11:00</b>	<b>Break</b>		
2	11:00-12:30	San Cristobal	<a href="#">TDIG/DAL/DM</a>	
	<b>12:30-14:00</b>	<b>San Cristobal C Lunch</b>		
3	14:00-15:30	San Cristobal	<a href="#">DM 1</a>	
		O'Higgins	<a href="#">GWS</a>	

Speaker	Title	Duration	Materials
Alberto Micol	VO-protocol based access to the ESO Science Archive Facility (release 1)	16'+3'	<a href="#">pdf</a>
Mathieu Servillat	Tracking provenance information with the OPUS job controller	16'+3'	<a href="#">pdf</a>
Tom McGlynn	Experiences Implementing <a href="#">HiPS</a> and MOC within the HEASARC	16'+3'	<a href="#">pdf and Detailed Comments</a>
Thomas Boch	hipspy and ipyaladin, new tools for the <a href="#">HiPS</a> ecosystem.	16'+3'	<a href="#">pdf</a>
Markus Demleitner	VOTable arraysize=1 discussion	14'	<a href="#">notes, slides</a>

**Saturday October 28 - San Cristobal - 11:00 - 12:30**

**Apps 2**

Speaker	Title	Duration	Materials
Mark Taylor	TOPCAT: Latest improvements	16'+3'	<a href="#">pdf</a>
André Schaaff	3D-Visualization of large datasets in a Web browser ?	16'+3'	<a href="#">pdf</a>
Bruno Merin	ESASky v2.0: spectroscopy, solar system objects and more	16'+3'	

**Sunday October 29 - San Cristobal - 8:30 - 10:00**

# Thanks to ChiVO and the LOC

Lead by Mauricio Solar  
... and to the ADASS LOC



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# See you next time in Victoria, Canada

