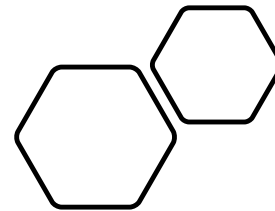


IVOA Closing Address
Virtual IVOA
Interoperability Meeting,
April 2022

<https://www.ivoa.net/>



G. Bruce Berriman
Chair, IVOA Executive
Committee
(USVAO/NAVO)

An Excellent Virtual Meeting

- Registrations: 186!
- Many thanks to everyone for attending even at ungodly local hours!
- New standards approved by Exec:
 - GMS1.0
 - SimpleDALRegExt1.2
 - MOC 2.0

Wednesday Apr 27, 2022				
ZOOM LINK for Wednesday: session complete				
7	5:00	60 min	Grid and Web Services 1	Giuliano Taffoni/Christine Banek / Brent Miszalski
	6:00	Break - 30 min		
8	6:30	60 min	TDIG/Radio/CSP	Ada Nebot/Brent Miszalski/Mark Cresitello Dittmar/Mark Lacy/Francois Bonnarel
	7:30	Break - 6.0 hours		
9	13:30	60 min	Education	Henrik Heini, Giulia lafrate
	14:30	Break - 30 min		
10	15:00	60 min	Data Model 1	Laurent Michel/Jesus Salgado
	16:00	Break - 4.5 hours		
11	20:30	60 min	Applications	Tom Donaldson/Adrian Damian
	21:30	Break - 30 min		
12	22:00	60 min	Theory	Gerard Lemson/Simon O'Toole
	23:00	End of Session		

IVOA Leadership Positions Appointed 2022

Extensions to current appointments:

WG/IG	Chair	Vice-Chair
Data Models	Laurent Michel	Jesus Salgado
Semantics	Markus Demleitner	Carlo-Maria Zwolf
Operations	Mark Taylor	Steve Groom
Grid and Web Services	Giulinao Taffoni	...

New appointments:

WG/IG	Chair	Vice-Chair
Registry	Renaud Savalle	Tess Jaffe
KDD	...	Yihan Tao
DCP	Gilles Landais	...
CSP	Ada Nebot	Francesca Civano
Grid and Web Services	...	Dave Morris (interim)

Position	
Executive Committee Secretary	Marcy Harbut

Retiring from WG/IG Positions

Person	Role
Tom Donaldson	Apps WG Chair
Teresa Dower	Registry WG Chair
Pierre Le Sidaner	Registry WG Vice-Chair
Andre Schaff	DCP IG Chair
Tim Jenness	DCP IG Vice-Chair

With thanks for your service!

Open positions May 2022

WG/IG /Position	Role
Applications	Chair
DCP	Vice-Chair
IAU Lab Astro. WG	Representative

➔ Please consider nominating yourself you are interested and able to serve!

Special Thanks for A Successful Meeting!

- The Organizers making it happen!

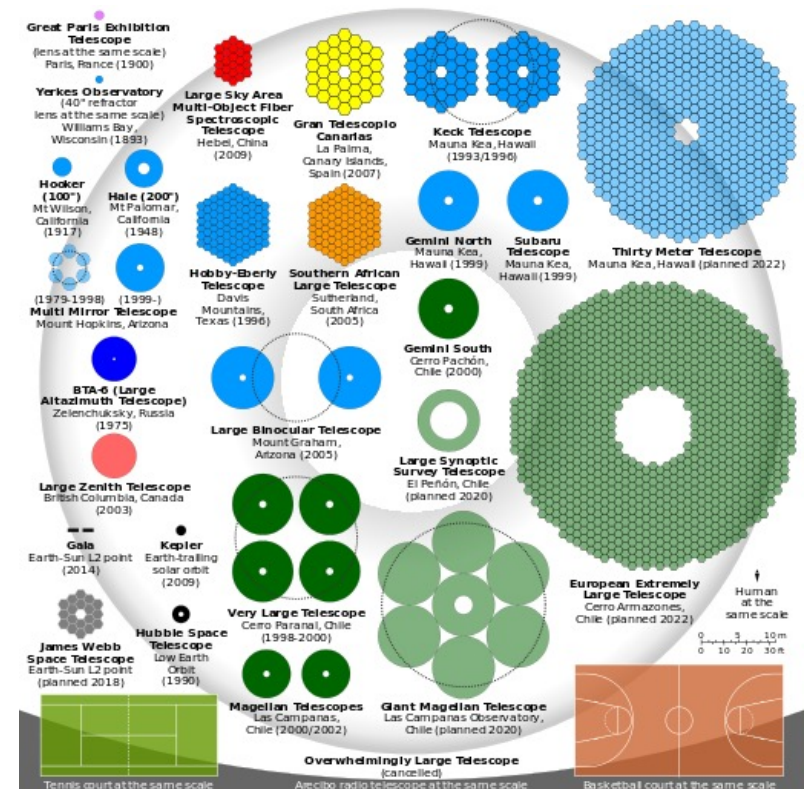
- Janet Evans
- Marco Molinaro
- Giulia Iafrate
- Giuliano Taffoni
- Hendrik Heinl
- Mark Cresitello-Dittmar
- Ada Nebot

- Italian National Institute for Astrophysics (INAF) for registration/web site
- CANFAR for hosting the recordings.
- Special guests from the IAU: Gabriele Giovannini, Marie-Lise Dubernet, Vanessa McBride.



Challenges for the IVOA In 2022 And Beyond

- PB scale missions will be commissioned!
- Big new telescopes!
- Support "science platforms" with analysis close to data.
- Support new data-type adoption, driven by the growth in size and complexity of data sets.
- Time-domain astronomy and multi-messenger astronomy
- New radio projects.
- Machine learning.



Challenges and Opportunities

- VO and FAIR principles
 - IVOA well positioned to support implementation of FAIR standards.
- Multi-messenger astronomy and time-domain astronomy
 - MOC 2.0 is a big step in supporting these two domains of research
- IAU
 - Special session led to suggestions for how we can best become engaged with the IAU.

Doug Tody would be pleased!



The Next Meeting

- Currently, we plan to hold a 2-3 day virtual meeting in the week of November 17.
- The Exec is looking into the possibility of holding a hybrid meeting instead.
- No decisions made yet!
- Please stay tuned.

Stay In Touch! Please Stay Safe

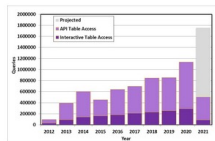
- IVOA Newsletter.
<https://www.ivoa.net/newsletter/index.html>



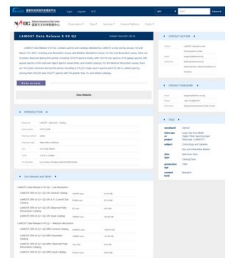
VO APPLICATIONS AND IMPLEMENTATION HIGHLIGHTS

TAP Service at the NASA Exoplanet Archive

Bruce Berrman
 The NASA Exoplanet Archive, operated by the NASA Exoplanet Science Institute at IPAC, has over the past 18 months redesigned its infrastructure to make the data more standardized, easier to access, more complete, and better reflect the scientific progress of the field of exoplanetary astrophysics. As part of this effort, the Exoplanet Archive released new and more comprehensive tables that were underpinned by Python-based nexsciTAP server (<https://github.com/Caltech-IPAC/nexsciTAP>). With the release of the new tables atop the new TAP services in 2020, the NASA Exoplanet Archive saw a noticeable increase in access of the tables by the community. The NASA Exoplanet Archive is now in the process of making all its tables TAP compliant.



Growth in usage of the NASA Exoplanet Archive over time. The TAP services were released in 2020.



VO standards-based Metadata Management and Data Submission System of NADC

Yihan Tao
 The National Astronomical Data Center (NADC) of China has developed a metadata management and data submission system. Data preservation for research project is one of the major responsibilities for NADC. The system is aimed at supporting the data submission process of astronomical projects, including the submission and review of metadata and data. With the system, data administrators can also curate a published data catalogue and manage the metadata. The metadata standard employed in the system is consistent with and extended from the VO standards-Resource Metadata for the Virtual Observatory Version 1.12 and IVOA Observation Data Model Core Components and its Implementation in the Table Access Protocol. In order to describe and filter the dataset by types, a multifaceted taxonomy of waveband, telescope/project, subject, data product type, production age, process level, content type and content level is adopted in the system and displayed as tags.

