



# Data Access Layer Working Group

## Closing

Marco Molinaro & James Dempsey  
28 May 2021



IVOA Northern Spring 2021 Interoperability Meeting  
25-28 May 2021

# The Schedule



Tuesday May 25, 2021				
ZOOM LINK for Tuesday: session complete				
1	05:00 UTC	10 min	Welcome & Logistics	Janet Evans
	05:10	20 min	State of the IVOA (pdf)	Chenzhou Cui
	05:30	10 min	State of the CSP (pdf)	Bruno Merin
	05:40	20 min	State of the TCG (pdf)	Patrick Dowler
	06:00	Break - 10 min		
2	06:10	50 min	Charge to WG/GIGs	WG/GIG Chairs
	07:00	Break - 6.5 hours		
3	13:30	60 min	Theory/GWS Workshop	Gerard Lemson/Giuliano Taffoni
	14:30	Break - 30 min		
4	15:00	60 min	Discussion: IVOA/Astroph/Astroquery/PyVO Collaboration	Bruno Merin/Tom Donaldson
	16:00	Break - 4.5 hours		
5	20:30	60 min	Applications	Tom Donaldson/Raffaele D'Abrusco
	21:30	Break - 30 min		
6	22:00	60 min	Radio IG	Mark Lacy/Francois Bonnarel
	23:00	End of Session		
Wednesday May 26, 2021				
ZOOM LINK for Wednesday: session complete				
7	5:00	60 min	Semantics	Markus Demleitner/Carlo Maria Zwoelf
	6:00	Break - 30 min		
8	6:30	60 min	Edu IG	Chenzhou Cui/Henrik Heint
	7:30	Break - 6.0 hours		
9	13:30	60 min	Theory/GWS Workshop	Gerard Lemson/Giuliano Taffoni
	14:30	Break - 30 min		
10	15:00	60 min	DMWorkshop	Laurent Michel/Jesus Salgado
	16:00	Break - 4.5 hours		
11	20:30	60 min	DAL	Marco Molinaro/James Dempsey
	21:30	Break - 30 min		
12	22:00	60 min	DCP	Andre Schaff/Tim Jenness
	23:00	End of Session		
Thursday May 27, 2021				
ZOOM LINK for Thursday: <a href="https://zo06337.pwvz=VEiZaMYONGvaTFhgTKE3MUEyb0jmdz09">https://zo06337.pwvz=VEiZaMYONGvaTFhgTKE3MUEyb0jmdz09</a>				
13	05:00	60 min	Apps/DAL	Tom Donaldson/Raffaele D'Abrusco
	05:00	Break - 30 min		
14	06:30	60 min	DAL/DM	Marco Molinaro/Laurent Michel
	07:30	Break - 6.0 hours		
15	13:30	60 min	Theory/GWS Workshop	Gerard Lemson/Giuliano Taffoni
	14:30	Break - 30 min		
16	15:00	60 min	DMWorkshop	Laurent Michel/Jesus Salgado
	16:00	Break - 4.5 hours		
17	20:30	60 min	SSIG	Baptiste Ceccorini/Steve Joy
	21:30	Break - 30 min		
18	22:00	60 min	Ops	Mark Taylor/Steve Groom
	23:00	End of Session		
Friday May 28, 2021				
ZOOM LINK for Friday: TBA				
19	05:00	60 min	DAL/Radio	Marco Molinaro/James Dempsey
	06:00	Break - 30 min		
20	06:30	60 min	GWS	Giuliano Taffoni/Christine Banek
	07:30	Break - 6.0 hours		
21	13:30	60 min	Registry	Theresa Dower/Pierre Le Sidaner
	14:30	Break - 30 mins		
22	15:00	60 min	DMWorkshop	Laurent Michel/Jesus Salgado
	16:00	Break - 4.5 hours		
23	20:30	60 min	Cps/DAL	Mark Taylor/Marco Molinaro
	21:30	Break - 30 min		
24	22:00	45 min	WG Closing Summaries	WG Chairs
		15 min	TCG Closing Summary	Patrick Dowler
		15 min	Exec Closing Summary	Chenzhou Cui
	23:00	End of Session		

- **1 DAL specific session**

- **4 joint sessions**

- Applications

- Data Model

- Radio

- Operations

- **...but hints coming also from other sessions**

- Radio, Semantics, Solar System



# “formal” DAL & Joint sessions



- **DataLink**
  - XSLT&JS + Semantics: VOTable styling in browsers
- **ADQL-2.1: wrap up & move to RFC**
- **Time Series discovery & access (Note update)**
  - source driven discovery, obscure needs, SIAv2 integration, building from ConeSearch/TAP query (TIMESYS, TIME in ConeSearch), STMOC
- **SIAv2 update**
  - ported to GitHub, tracking issues there now. Models for archive vs. virtual access when using SODA/DataLink (for cutout)
  - vocabularies for FACILITY, INSTRUMENT?
  - extending dataproduct\_type -> general simple dataset access protocol
    - how to handle extensions w.r.t. base image/cube access
- **Usage of DAL protocols in workflows/portals/data aggregation**
  - not only SIA and TAP, also first ideas of using ObsLocTAP, ObjVisSAP
- **Provenance access**
  - “last step” provenance and use in ProvTAP/ProvSAP
- **SSA implementations & update requirements**
  - output formats, custom models integrated with obscure, other-than VOTable outputs, STMOC querying, spectral order and upper/lower limits on SED, move units to VOUnits



# “formal” DAL & Joint sessions



- **ObsLocTap** quickly moving to REC
- **Obscore extension for radio interferometry**
  - add a table/add fields, frequency w.r.t. wavelength & UDF
- **Time & Frequency data products**
  - Time Spectra MOC, time frequency geometry solution with JSON representation in TAP (xtype?)
- **Radio astronomy data providing**
  - asking for more DataLink and SODA, integrating catalogues of single dish spectra, SIAv2 usage in managing cubes (or CAOM?), providing metadata via DataLink
- **Provenance approach for the SKA Science Data processor**
- **Ops/DAL service compliance issues discussion**



details available on wiki

<https://wiki.ivoa.net/twiki/bin/view/IVOA/InterOpMay2021DAL>

# Cherry picking & other sessions



- **EPN-TAP on its way to become REC**
  - more and more used
- **dataprodect\_type vocabulary**
  - extensions, mapping needs, usage in protocols
- **Radio astronomy products integration**
  - uv(w) plane in querying/preview, raw/science data multiplicity (2-step or, difficult, obscure dataprodect choices)
- **MOC-driven query (space, time, energy)**
- **SSA needs a revision**
  - light revision
  - “Simple Dataset Access” integrated?
    - (SIA has enough feedback for revision anyway)
- **Time Series & events handling**
  - search them, use them, describe them...



# Keep in touch with DAL



mailing list: <http://mail.ivoa.net/mailman/listinfo/dal> → subscribe! [dal@ivoa.net](mailto:dal@ivoa.net)

wiki: <https://wiki.ivoa.net/twiki/bin/view/IVOA/IvoaDAL>

github: <https://github.com/ivoa-std/{DOCNAME}>

slack: [https://join.slack.com/t/ivoa/shared\\_invite/zt-r22e0ir4-KMOQXzAMmKzcUXWOjrJSZQ](https://join.slack.com/t/ivoa/shared_invite/zt-r22e0ir4-KMOQXzAMmKzcUXWOjrJSZQ) (#dal channel)

monthly running meetings: [https://wiki.ivoa.net/twiki/bin/view/IVOA/IvoaDAL\\_RunningMeetings](https://wiki.ivoa.net/twiki/bin/view/IVOA/IvoaDAL_RunningMeetings)

contact DAL coordination

