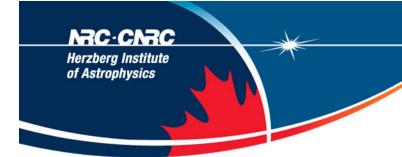


Virtual Observatory Activities in Canada

Séverin Gaudet, Patrick Armstrong, Nick Ball, David Bohlender, Jeff Burke, Brian Chapel, Ed Chapin, Adrian Damian, Daniel Durand, Pat Dowler, Ian Gable, Sharon Goliath, Isabella Ghiurea, Sébastien Fabbro, Stephen Gwyn, Dustin Jenkins, JJ Kavelaars, Brian Major, John Ouellette, Mike Paterson, Russell Redman, David Schade, Alinga Yeung, Sailor Zhang







Canadian Virtual Observatory

- A project of CADC
- Goals
 - Publish data from collections
 - Contribute to IVOA development
 - Deploy services for the community
- Funding
 - Long-Range Plan for Astronomy in Canada
 - Canadian Space Agency
 - Herzberg Institute for Astrophysics
 - CANARIE





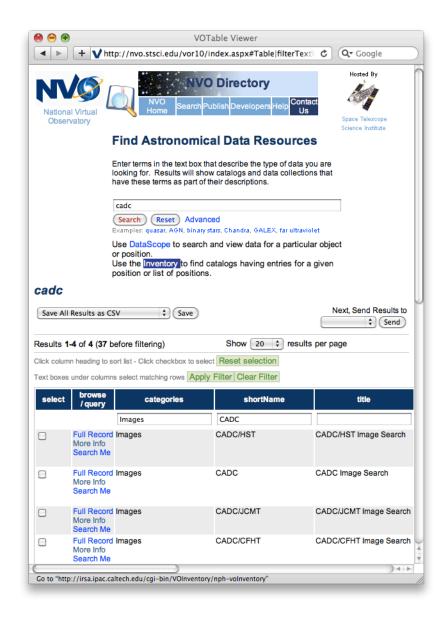
SIA queries

- 326,675 queries
- 2,259 distinct IP addresses

SIA file retrievals

- 115,900 files delivered
- 1,194 distinct IP addresses
- 12% of all public files delivered by CADC

Operations in 2009





Collections today

Collection	on	SIA ¹	ObsCore ²	CAOM ³
BLAST			37	104
CFHT		120,283	368,148	445,116
GEMINI			51,257	51,257
HST		505,459	1,192,556	2,515,204
IRIS			430	430
JCMT		4,133	747,881	811,381
MACHO		2,024	120,803	120,803
-	Total	631,899	2,481,112	3,944,295

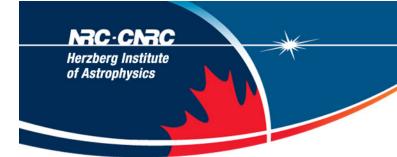
¹Calibrated image data

²Raw and calibrated data

³Raw, calibrated and auxiliary data

Collections to be done:

HLA, CFHT ESPaDOnS, Gemini, CGPS



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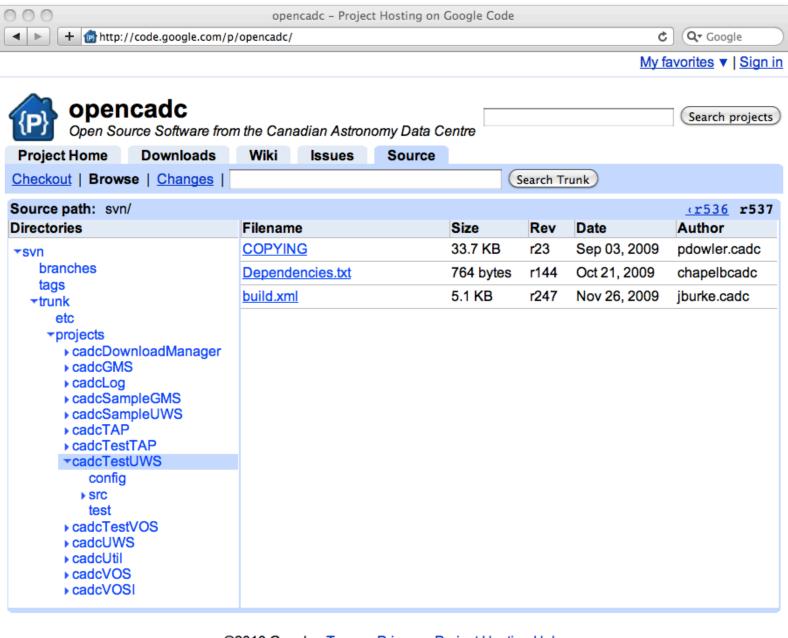




Table Access Protocol

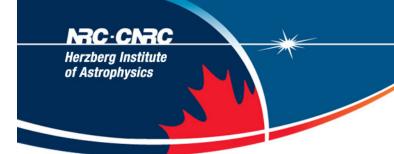
- Released a production TAP service with UWS
- Queries:
 - The Common Archive Observation Model (CAOM)
 - The (evolving) ObsCore prototype table
 - An Annotation service for CANFAR
- Used in:
 - A new implementation of SIA services
 - A new implementation of CADC Search interfaces

http://www.cadc.hia.nrc.gc.ca/caom/



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CANFAR

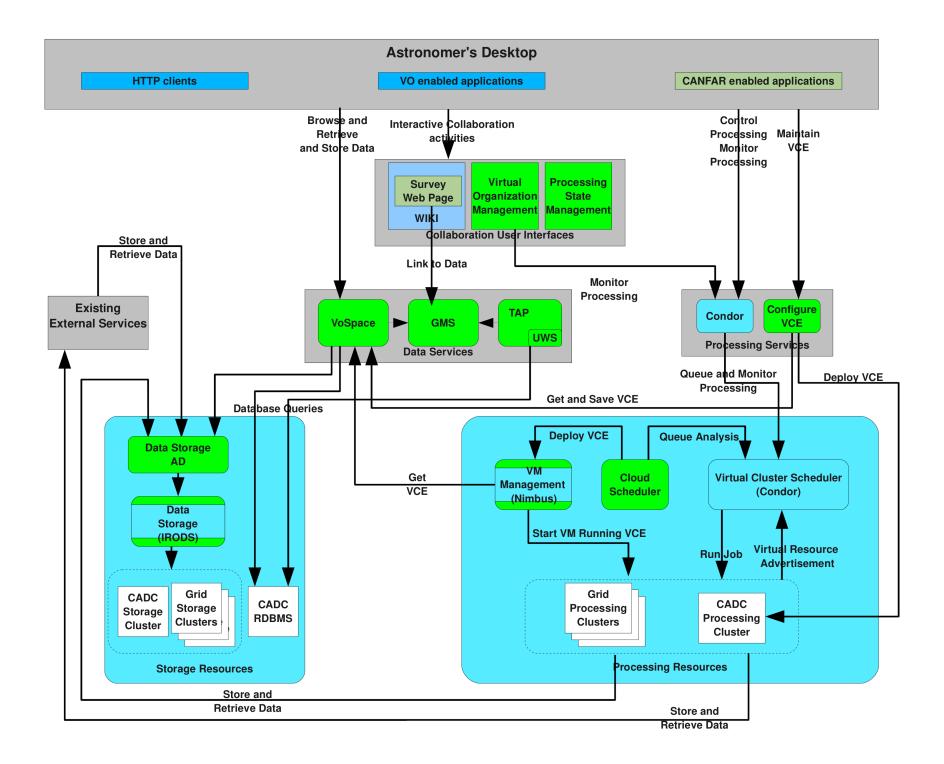
- Canadian Advanced Network for Astronomical Research
- Enable leading-edge scientific discovery
- Turning Grid resources into a Cloud for astronomy
 - Deliver a network-enabled platform for the delivery, processing, storage, analysis and distribution of large astronomical datasets
- Support the changing sociology of science
 - Survey/project teams
- 2½ year project; 24.5 FTE
- 6 survey projects
- IVOA technologies core to the design













CANFAR activities

- Implemented IVOA Single Sign On across all CADC web applications and services:
 - X.509 certificates
 - Access proprietary data or other restricted resources.
- Prototyped a Group Membership Service (GMS)
 - GWS 1: today 14.00-15.30
- Developing VOSpace 2.0
 - GWS 1: today 14.00–15.30
- Developing multi-cluster cloud scheduler
 - GWS 2: Thursday 11.00–12.30



New approach

- New perspective on VO standards
 - VO has moved from periphery to core
 - Re-using the intellectual investment of the IVOA
- Applying to new CADC use cases:
 - Annotation service: TAP, GMS, SSO
 - PI distribution: VOSpace, GMS, SSO
 - Collaboration repositories: VOSpace, GMS, SSO
 - Virtual machine repositories: VOSpace, GMS, SSO
 - Sharing virtual machines: VOSpace, GMS, SSO

