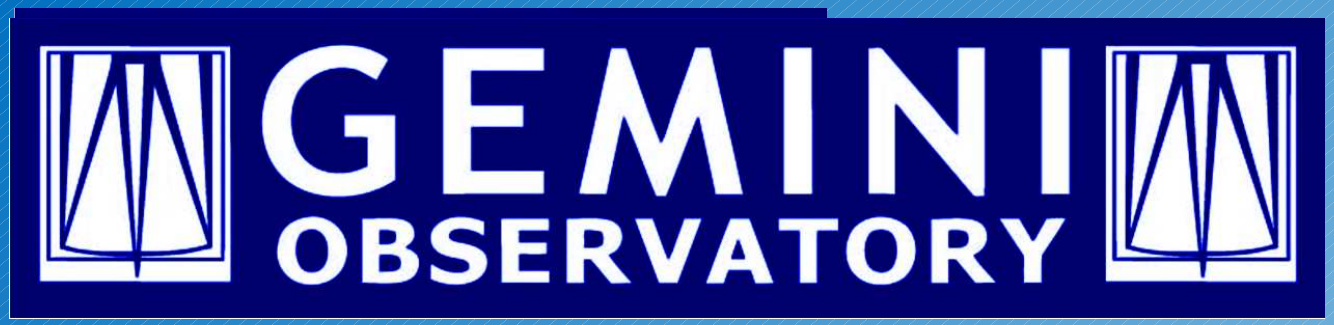
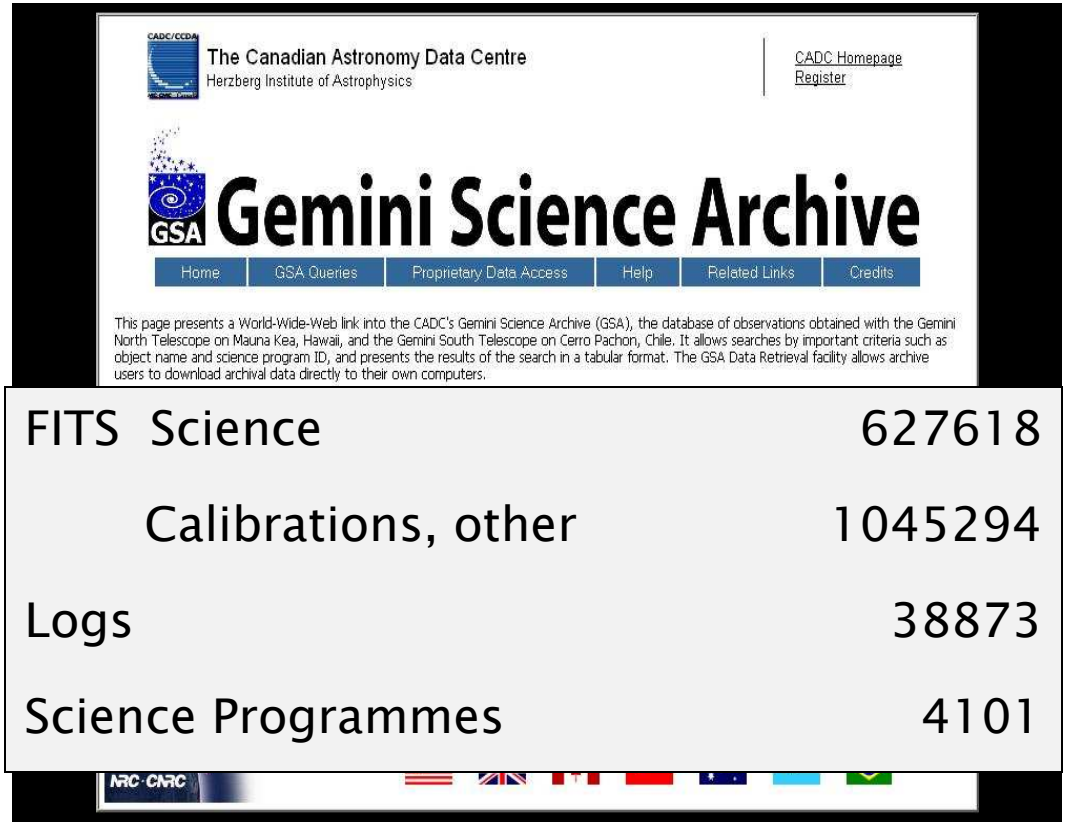


The Gemini Science Archive

SAGDSW - Brazil, October 27-30, 2011

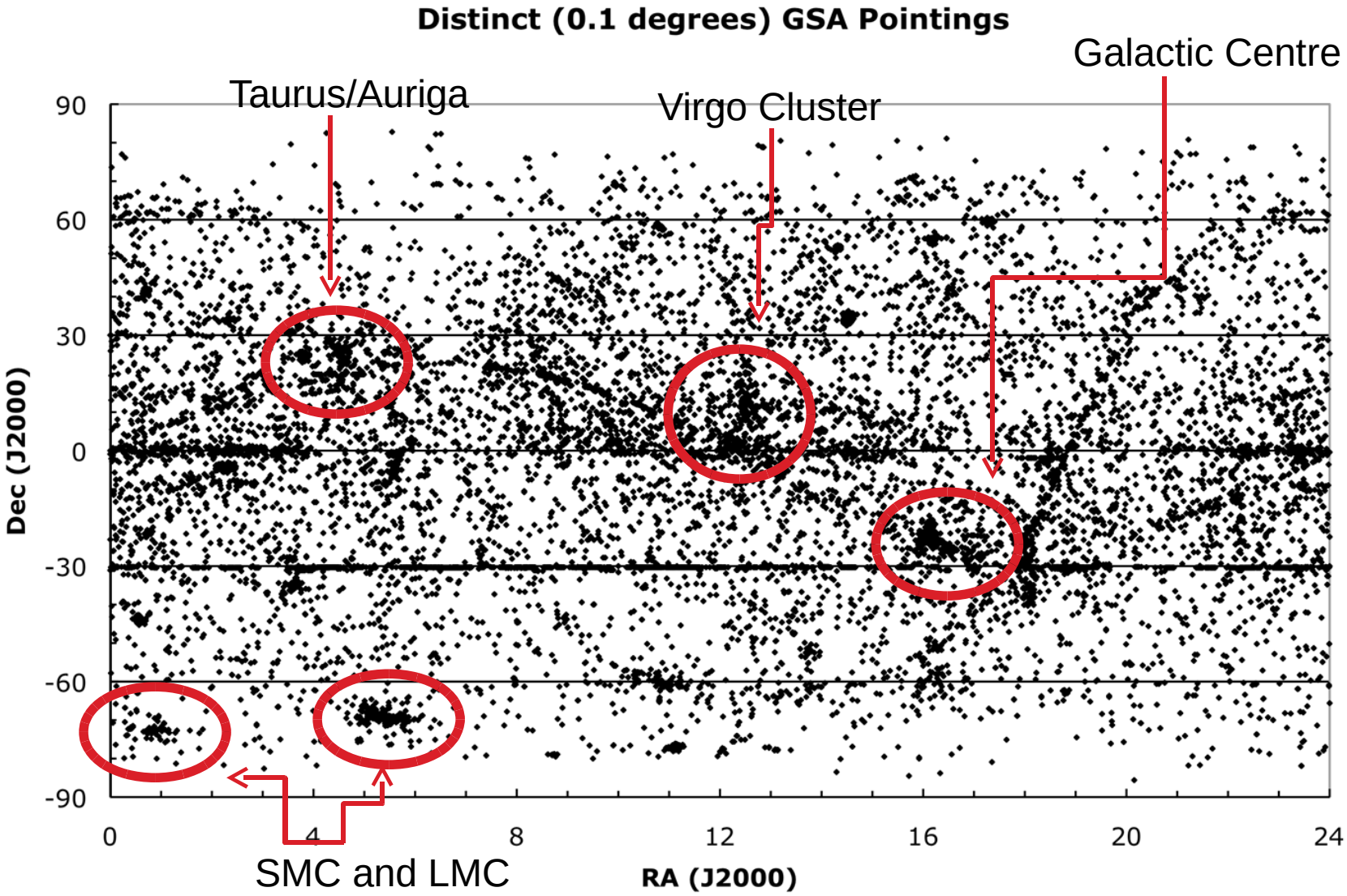
Introduction

- Hosted by CADC in Victoria, Canada.
- Released September 2004
- Gemini North data from May 2000
- Gemini South data from October 2001
- E-transfer started October 2005 – automatic transfer from sites to CADC.
- Active transfer from sites to archive as observation progresses.



FITS	Science	627618
	Calibrations, other	1045294
Logs		38873
Science Programmes		4101

Data and Content



Populating the database

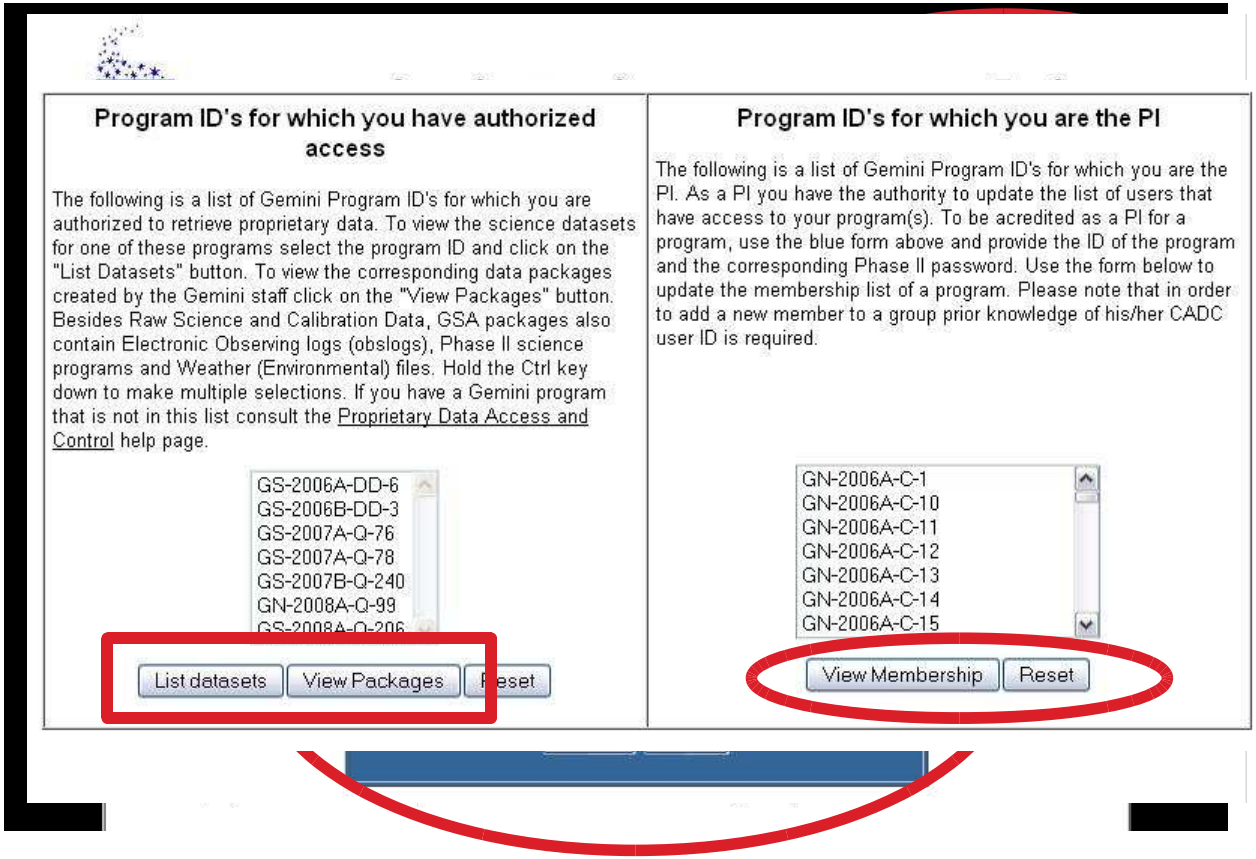
- Database is populated with content of header keywords
- Header content is enforced from the time of ingestion – if a mandatory keyword is absent, the dataset is rejected until fixed
- Metadata related to individual observations is obtained from the Observing Tool – very little information is required to be added by the observer (environmental information in terms of realized percentiles, name of observer/operator).
- Instrument/telescope related information is passed directly from subsystems to the Data Handling System
- Result in complete, stable header content.
- Filename format is fixed and unique (S20111019S0412.fits)
- Each dataset is uniquely identified by a datalabel, containing the name of the programme (GS-2011B-Q-13-24-350)
- Observing logs are generated as observation progresses, and the observer can add comments, but not change content.

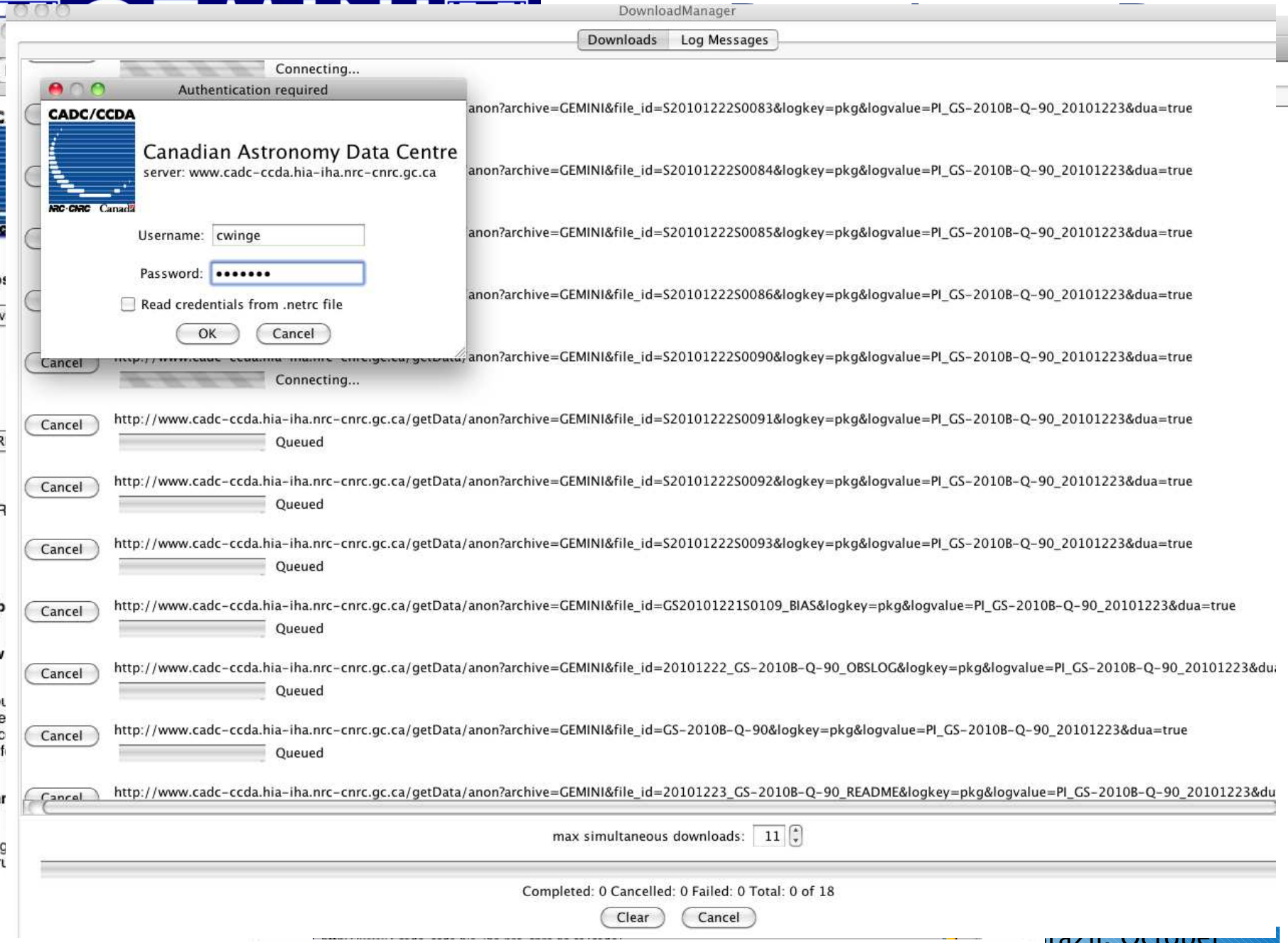
Data Ingestion and Distribution

OPD, SOAR, Gemini – Brazil
2010-03-09

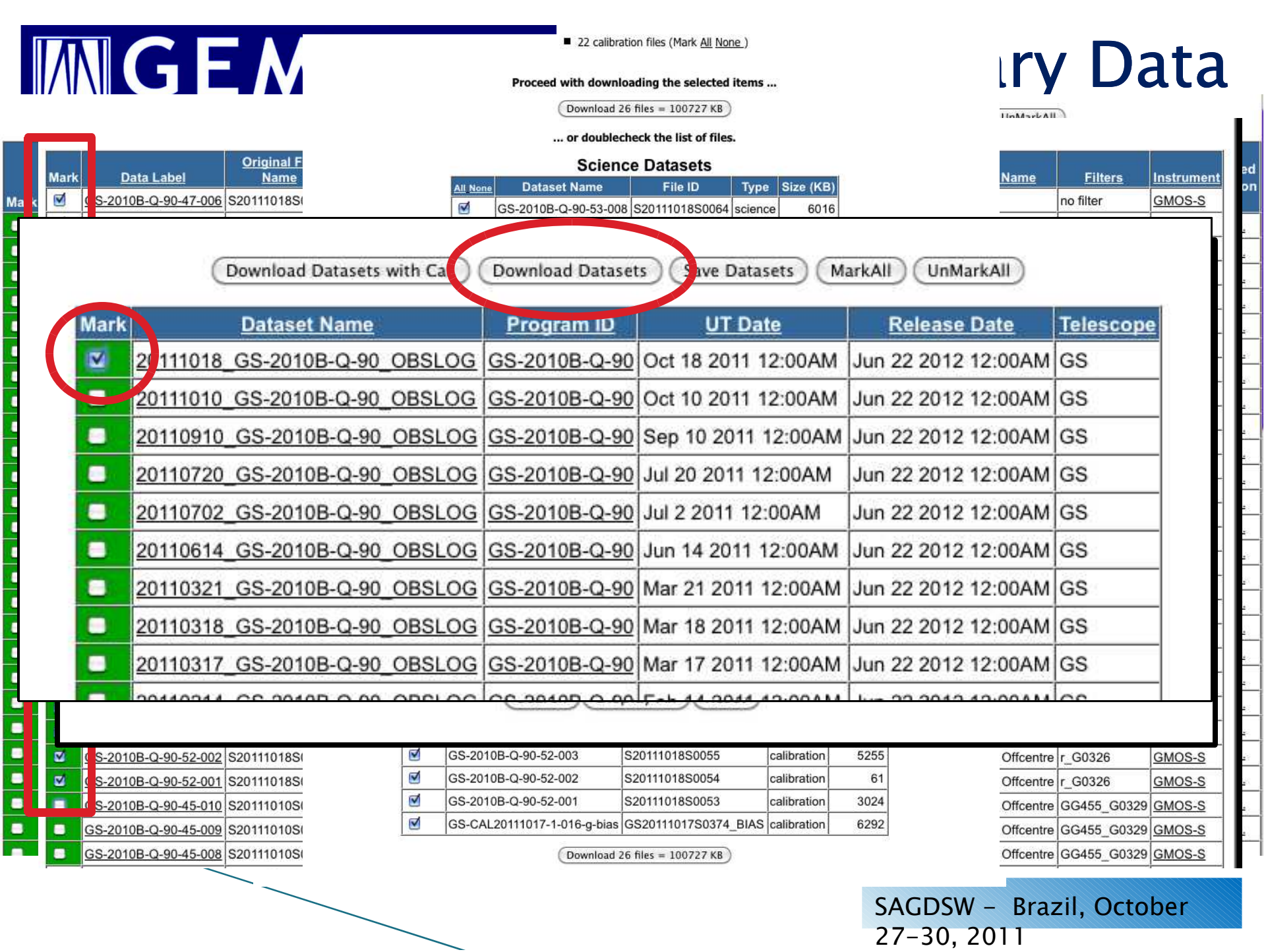
Proprietary Data

- Proprietary period 18 months from date of observation
- CADC registration required
- Access through Phase II passkey
- Authorize other users without releasing Phase II key
- Download datasets any time or “packages” when available



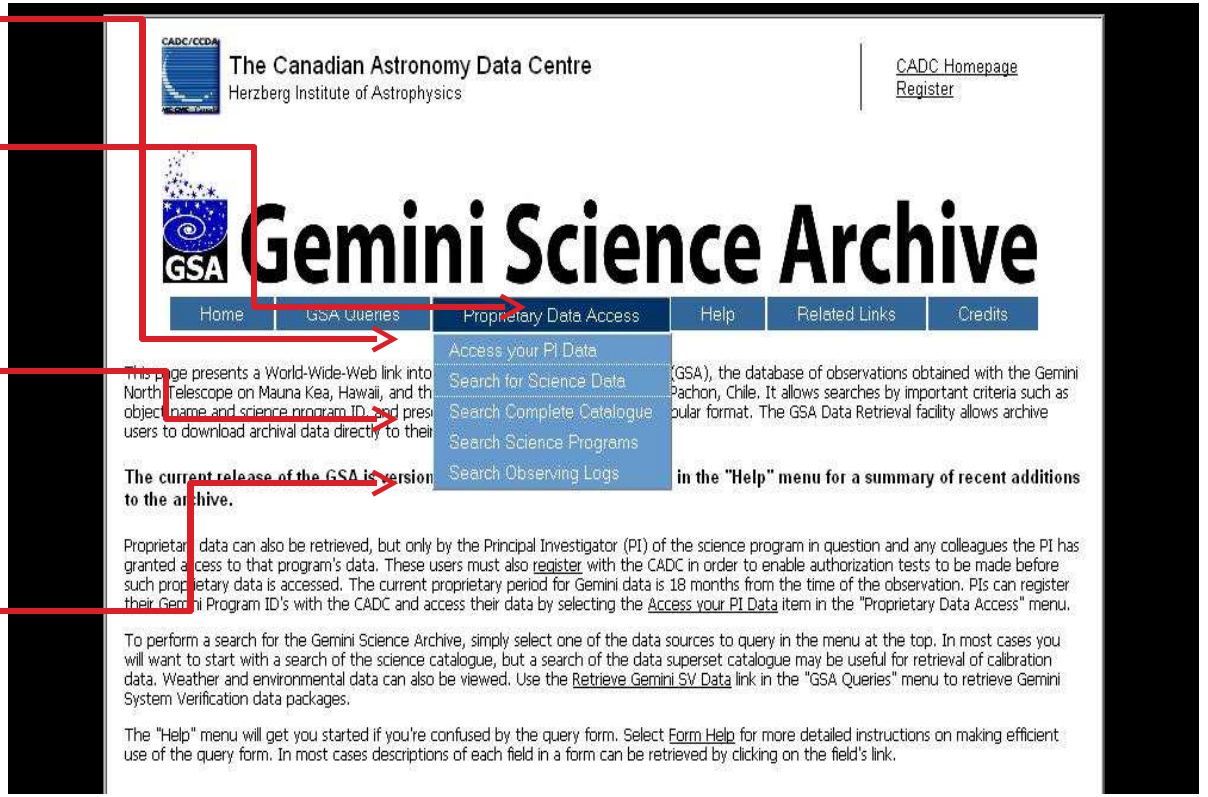

DownloadManager
Downloads
Log Messages
Connecting...
Authentication required
CADC/CCDA
Canadian Astronomy Data Centre
server: www.cadc-ccda.hia-iha.nrc-cnrc.gc.ca
Username: cwinge
Password: •••••••
Read credentials from .netrc file
OK
Cancel
Cancel
Connecting...
Cancel http://www.cadc-ccda.hia-iha.nrc-cnrc.gc.ca/getData/anon?archive=GEMINI&file_id=S20101222S0091&logkey=pkg&logvalue=PI_GS-2010B-Q-90_20101223&dua=true
Queued
Cancel http://www.cadc-ccda.hia-iha.nrc-cnrc.gc.ca/getData/anon?archive=GEMINI&file_id=S20101222S0092&logkey=pkg&logvalue=PI_GS-2010B-Q-90_20101223&dua=true
Queued
Cancel http://www.cadc-ccda.hia-iha.nrc-cnrc.gc.ca/getData/anon?archive=GEMINI&file_id=S20101222S0093&logkey=pkg&logvalue=PI_GS-2010B-Q-90_20101223&dua=true
Queued
Cancel http://www.cadc-ccda.hia-iha.nrc-cnrc.gc.ca/getData/anon?archive=GEMINI&file_id=GS20101221S0109_BIAS&logkey=pkg&logvalue=PI_GS-2010B-Q-90_20101223&dua=true
Queued
Cancel http://www.cadc-ccda.hia-iha.nrc-cnrc.gc.ca/getData/anon?archive=GEMINI&file_id=20101222_GS-2010B-Q-90_OBSLOG&logkey=pkg&logvalue=PI_GS-2010B-Q-90_20101223&du
Queued
Cancel http://www.cadc-ccda.hia-iha.nrc-cnrc.gc.ca/getData/anon?archive=GEMINI&file_id=GS-2010B-Q-90&logkey=pkg&logvalue=PI_GS-2010B-Q-90_20101223&dua=true
Queued
Cancel http://www.cadc-ccda.hia-iha.nrc-cnrc.gc.ca/getData/anon?archive=GEMINI&file_id=20101223_GS-2010B-Q-90_README&logkey=pkg&logvalue=PI_GS-2010B-Q-90_20101223&du
max simultaneous downloads: 11
Completed: 0 Cancelled: 0 Failed: 0 Total: 0 of 18
Clear
Cancel

ıry Data

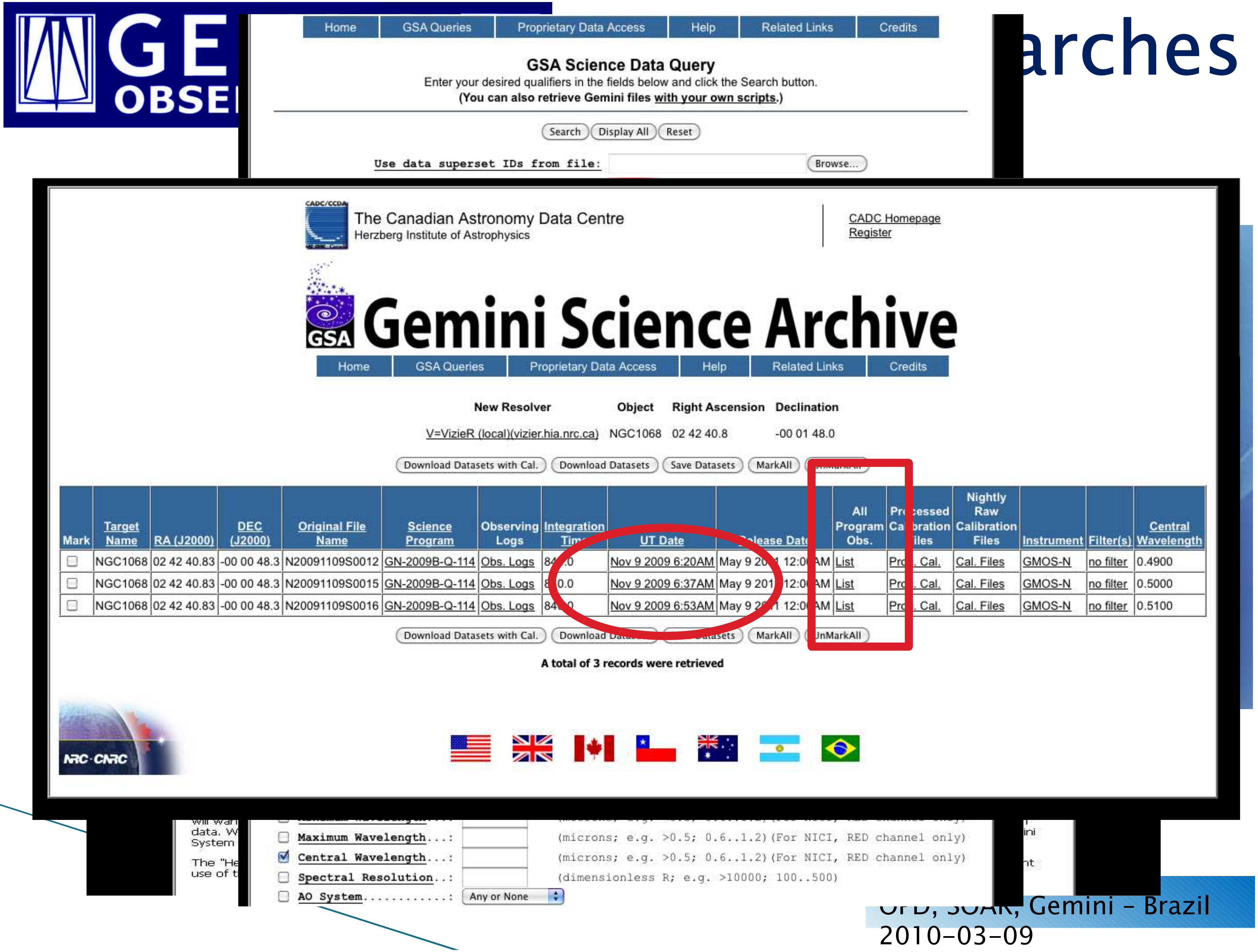

22 calibration files (Mark All None)
Proceed with downloading the selected items ...
Download 26 files = 100727 KB
... or doublecheck the list of files.
Science Datasets
All None | Dataset Name | File ID | Type | Size (KB)
GS-2010B-Q-90-53-008 | S20111018S0064 | science | 6016
Download Datasets with Ca | Download Datasets | ave Datasets | MarkAll | UnMarkAll
Mark | Dataset Name | Program ID | UT Date | Release Date | Telescope
20111018_GS-2010B-Q-90_OBSLOG | GS-2010B-Q-90 | Oct 18 2011 12:00AM | Jun 22 2012 12:00AM | GS
20111010_GS-2010B-Q-90_OBSLOG | GS-2010B-Q-90 | Oct 10 2011 12:00AM | Jun 22 2012 12:00AM | GS
20110910_GS-2010B-Q-90_OBSLOG | GS-2010B-Q-90 | Sep 10 2011 12:00AM | Jun 22 2012 12:00AM | GS
20110720_GS-2010B-Q-90_OBSLOG | GS-2010B-Q-90 | Jul 20 2011 12:00AM | Jun 22 2012 12:00AM | GS
20110702_GS-2010B-Q-90_OBSLOG | GS-2010B-Q-90 | Jul 2 2011 12:00AM | Jun 22 2012 12:00AM | GS
20110614_GS-2010B-Q-90_OBSLOG | GS-2010B-Q-90 | Jun 14 2011 12:00AM | Jun 22 2012 12:00AM | GS
20110321_GS-2010B-Q-90_OBSLOG | GS-2010B-Q-90 | Mar 21 2011 12:00AM | Jun 22 2012 12:00AM | GS
20110318_GS-2010B-Q-90_OBSLOG | GS-2010B-Q-90 | Mar 18 2011 12:00AM | Jun 22 2012 12:00AM | GS
20110317_GS-2010B-Q-90_OBSLOG | GS-2010B-Q-90 | Mar 17 2011 12:00AM | Jun 22 2012 12:00AM | GS
Name | Filters | Instrument
no filter | GMOS-S
GS-2010B-Q-90-52-003 | S20111018S0055 | calibration | 5255 | Offcentre | r_G0326 | GMOS-S
GS-2010B-Q-90-52-002 | S20111018S0054 | calibration | 61 | Offcentre | r_G0326 | GMOS-S
GS-2010B-Q-90-52-001 | S20111018S0053 | calibration | 3024 | Offcentre | GG455_G0329 | GMOS-S
GS-CAL20111017-1-016-g-bias | GS20111017S0374_BIAS | calibration | 6292 | Offcentre | GG455_G0329 | GMOS-S
Download 26 files = 100727 KB

Proprietary data search

- Authorize user first
- Use proprietary data searches to enable access
- Science Catalog contains only **science** datasets – no calibrations
- Use Complete Catalog to search for calibrations
- Obslogs are proprietary until first dataset goes public – then ALL obslogs become public.
- Science Programs NOT available from outside packages – FETCH from ODB instead



arches



Home | GSA Queries | Proprietary Data Access | Help | Related Links | Credits

GSA Science Data Query

Enter your desired qualifiers in the fields below and click the Search button.

(You can also retrieve Gemini files with your own scripts.)

Search | Display All | Reset

Use data superset IDs from file: Browse...

The Canadian Astronomy Data Centre
Herzberg Institute of Astrophysics

CADC Homepage
Register

Gemini Science Archive

Home | GSA Queries | Proprietary Data Access | Help | Related Links | Credits

New Resolver	Object	Right Ascension	Declination
V=VizieR (local)(vizier.hia.nrc.ca)	NGC1068	02 42 40.8	-00 01 48.0

Download Datasets with Cal. | Download Datasets | Save Datasets | MarkAll

Mark	Target Name	RA (J2000)	DEC (J2000)	Original File Name	Science Program	Observing Logs	Integration Tim	UT Date	elease Date	All Program Obs.	Pr cessed Ca bration iles	Nightly Raw Calibration Files	Instrument	Filter(s)	Central Wavelength
☐	NGC1068	02 42 40.83	-00 00 48.3	N20091109S0012	GN-2009B-Q-114	Obs. Logs	84 .0	Nov 9 2009 6:20AM	May 9 20 1 12:0 AM	List	Pro . Cal.	Cal. Files	GMOS-N	no filter	0.4900
☐	NGC1068	02 42 40.83	-00 00 48.3	N20091109S0015	GN-2009B-Q-114	Obs. Logs	8 0.0	Nov 9 2009 6:37AM	May 9 201 12:0 AM	List	Pro . Cal.	Cal. Files	GMOS-N	no filter	0.5000
☐	NGC1068	02 42 40.83	-00 00 48.3	N20091109S0016	GN-2009B-Q-114	Obs. Logs	84 0	Nov 9 2009 6:53AM	May 9 2 1 12:0 AM	List	Pro . Cal.	Cal. Files	GMOS-N	no filter	0.5100

Download Datasets with Cal. | MarkAll | UnMarkAll

A total of 3 records were retrieved

NRC·CNRC

Maximum Wavelength...: (microns; e.g. >0.5; 0.6..1.2) (For NICI, RED channel only)

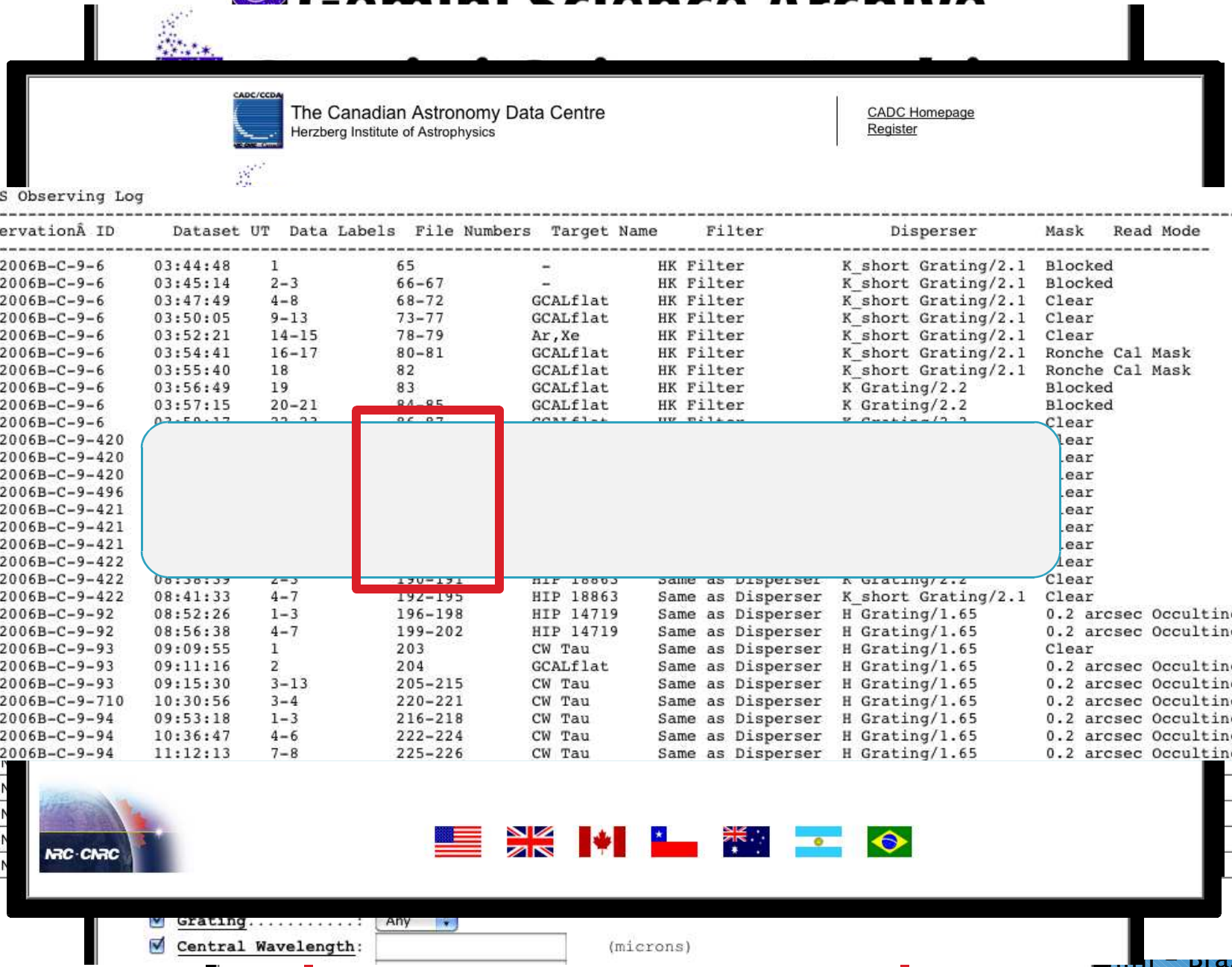
Central Wavelength...: (microns; e.g. >0.5; 0.6..1.2) (For NICI, RED channel only)

Spectral Resolution..: (dimensionless R; e.g. >10000; 100..500)

AO System............: Any or None

OPD, SOAR, Gemini - Brazil
2010-03-09

Gemini Science Archive



The Canadian Astronomy Data Centre
Herzberg Institute of Astrophysics

CADC Homepage
Register

NIFS Observing Log

ObservationÂ ID	Dataset UT	Data Labels	File Numbers	Target Name	Filter	Disperser	Mask	Read Mode
GN-2006B-C-9-6	03:44:48	1	65	-	HK Filter	K_short Grating/2.1	Blocked	
GN-2006B-C-9-6	03:45:14	2-3	66-67	-	HK Filter	K_short Grating/2.1	Blocked	
GN-2006B-C-9-6	03:47:49	4-8	68-72	GCALflat	HK Filter	K_short Grating/2.1	Clear	
GN-2006B-C-9-6	03:50:05	9-13	73-77	GCALflat	HK Filter	K_short Grating/2.1	Clear	
GN-2006B-C-9-6	03:52:21	14-15	78-79	Ar,Xe	HK Filter	K_short Grating/2.1	Clear	
GN-2006B-C-9-6	03:54:41	16-17	80-81	GCALflat	HK Filter	K_short Grating/2.1	Ronche Cal Mask	
GN-2006B-C-9-6	03:55:40	18	82	GCALflat	HK Filter	K_short Grating/2.1	Ronche Cal Mask	
GN-2006B-C-9-6	03:56:49	19	83	GCALflat	HK Filter	K Grating/2.2	Blocked	
GN-2006B-C-9-6	03:57:15	20-21	84-85	GCALflat	HK Filter	K Grating/2.2	Blocked	
GN-2006B-C-9-6							Clear	
GN-2006B-C-9-420							lear	
GN-2006B-C-9-420							lear	
GN-2006B-C-9-420							lear	
GN-2006B-C-9-496							lear	
GN-2006B-C-9-421							lear	
GN-2006B-C-9-421							lear	
GN-2006B-C-9-421							lear	
GN-2006B-C-9-422							lear	
GN-2006B-C-9-422	08:38:39	2-3	190-191	HIP 18863	Same as Disperser	K Grating/2.2	Clear	
GN-2006B-C-9-422	08:41:33	4-7	192-195	HIP 18863	Same as Disperser	K_short Grating/2.1	Clear	
GN-2006B-C-9-92	08:52:26	1-3	196-198	HIP 14719	Same as Disperser	H Grating/1.65	0.2 arcsec Occulting Disk	
GN-2006B-C-9-92	08:56:38	4-7	199-202	HIP 14719	Same as Disperser	H Grating/1.65	0.2 arcsec Occulting Disk	
GN-2006B-C-9-93	09:09:55	1	203	CW Tau	Same as Disperser	H Grating/1.65	Clear	
GN-2006B-C-9-93	09:11:16	2	204	GCALflat	Same as Disperser	H Grating/1.65	0.2 arcsec Occulting Disk	
GN-2006B-C-9-93	09:15:30	3-13	205-215	CW Tau	Same as Disperser	H Grating/1.65	0.2 arcsec Occulting Disk	
GN-2006B-C-9-710	10:30:56	3-4	220-221	CW Tau	Same as Disperser	H Grating/1.65	0.2 arcsec Occulting Disk	
GN-2006B-C-9-94	09:53:18	1-3	216-218	CW Tau	Same as Disperser	H Grating/1.65	0.2 arcsec Occulting Disk	
GN-2006B-C-9-94	10:36:47	4-6	222-224	CW Tau	Same as Disperser	H Grating/1.65	0.2 arcsec Occulting Disk	
GN-2006B-C-9-94	11:12:13	7-8	225-226	CW Tau	Same as Disperser	H Grating/1.65	0.2 arcsec Occulting Disk	

NRC·CNRC

Grating.....: Any

Central Wavelength: (microns)

Save Marked Rows | MarkAll | UnMarkAll

Mark	Bibcode	Authors	Title	Citations	Program ID	Telescope	Instruments	Affiliate
			NGC 7097: The					

s.

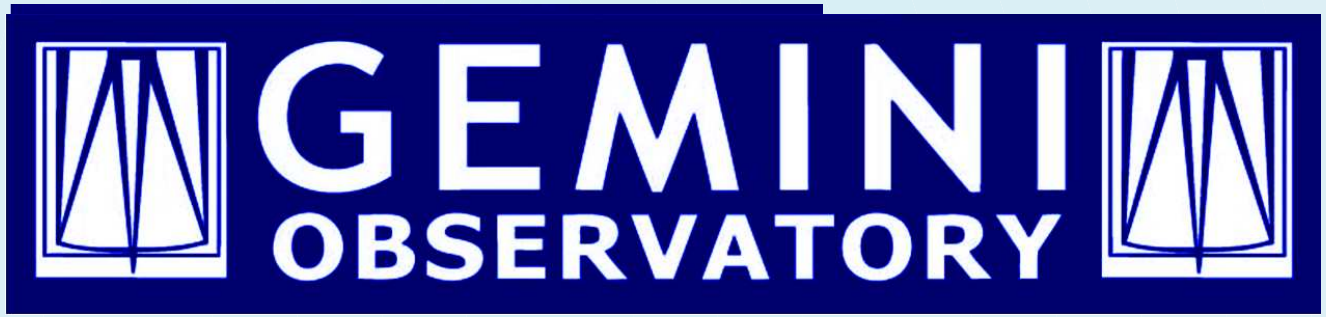
Program ID	GS-2008B-Q-21
Partner Country	Brasil
Science Datasets	All data public
Science Category	Extra-Galactic
Keywords	Active galaxies Elliptical galaxies Galaxy centers Liners Seyfert galaxies
PI Name	Joao Steiner
Co-I Names	Roberto Menezes, Tiago Ricci, Alexandre Oliveira
Title	Search for very weak LINER 1 galactic nuclei
Abstract	We will search for the very low end of the luminosity function of LINERs type 1, proceeding with the study launched in semester 2008A. We expect to detect broad line emission in a good fraction of them (>50%), even if the main LINER emitting source is non-nuclear. The knowledge of the super-massive black hole demography is relevant for establishing their mass function in the local universe. As a by-product, we expect to identify and quantify the diverse mechanisms that are contributing to the overall LINER emission - as well as locate them in space.
Instruments	GMOS-S
SRB	1
Hours Allocated	6

Save Marked Rows | MarkAll | UnMarkAll

Hours Charged...:

Future plans?

- PI packaging replacement:
  - Association of raw calibration with science files outside packages (and in the public archive!)
  - User configurable notification, via RSS feeds
  - Download via VOSpace (tree) or GSA pages
- Common Archive Operations Model (single search to all CADC archives), data products (visualization) and VO publication:
  - Raw Phoenix and GMOS imaging raw/processed.
- Long range plan: input/demand is needed from the user community – take your requests to the Gemini Sci&Tech Advisory Committee!



Questions?