Analyzing large datasets: The Portal solution

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on behalf of the DES-Brazil team

DES Science Portal

(1996-2005)

People ....

- get tired
- get sick
- change jobs
- make mistakes
- get bored
- .....

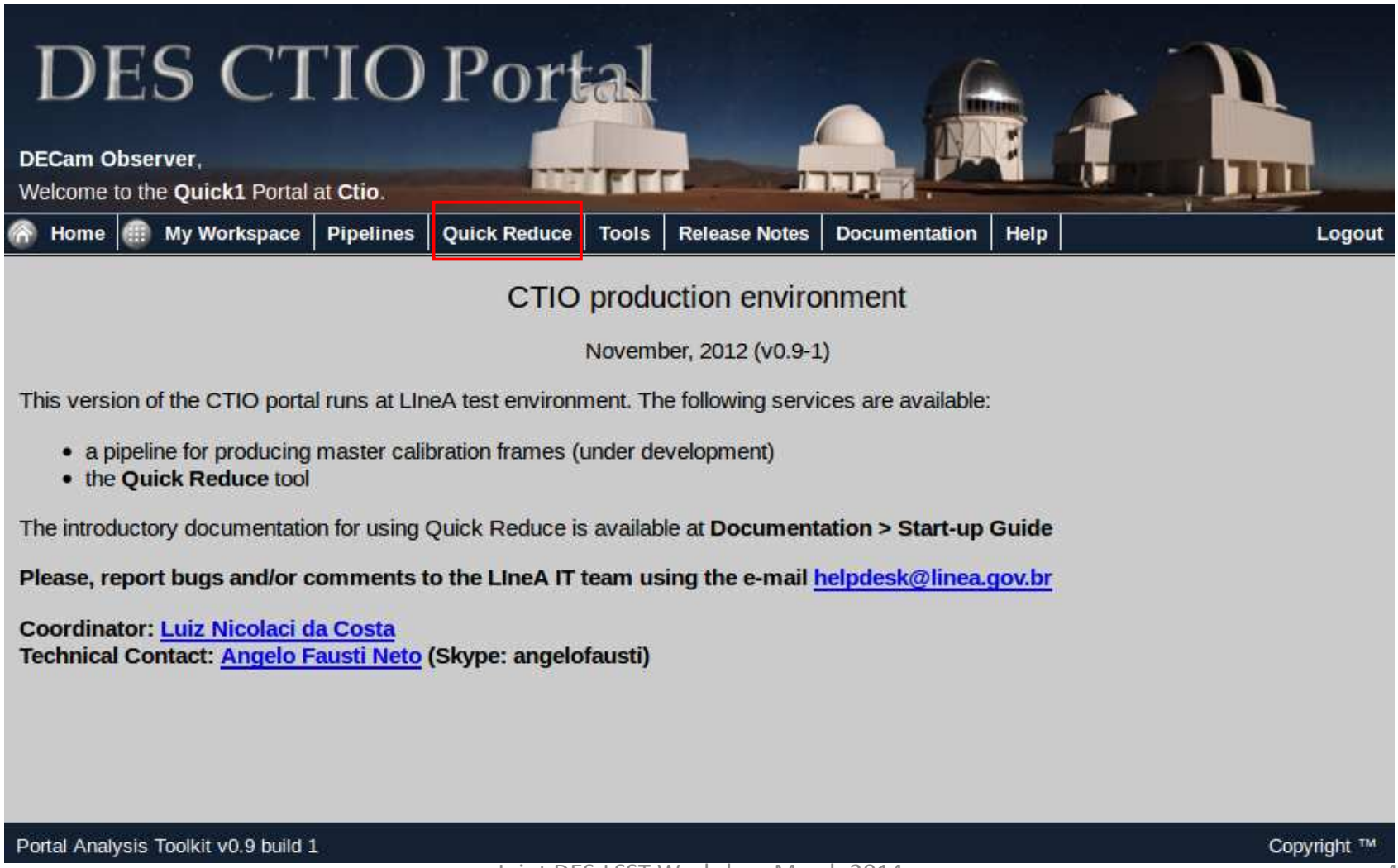
Need to have an integrated system with streamlined procedures running unsupervised

Start 2006
40 FTE-years

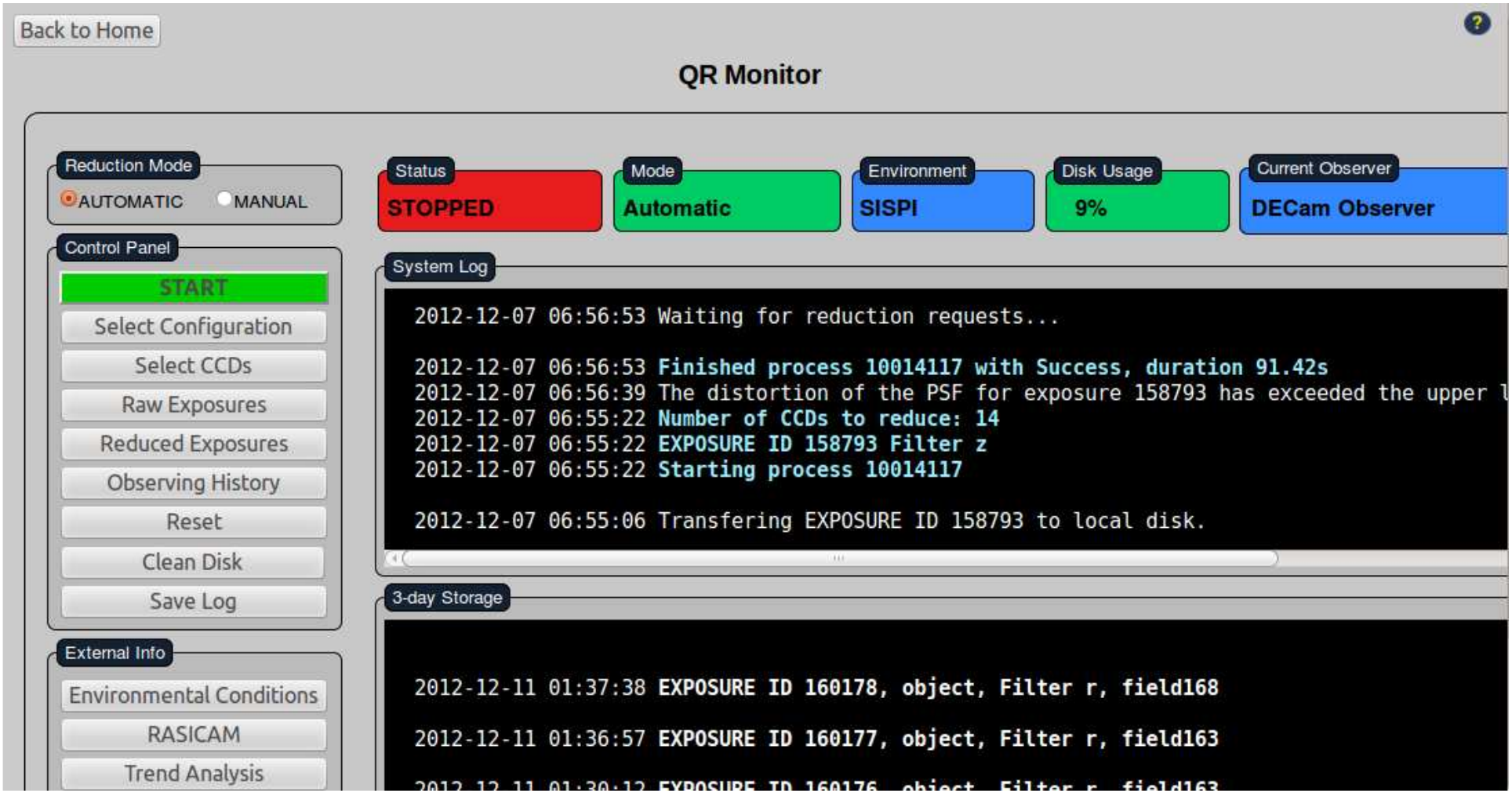
Portal Instances

- CTIO Portal
  - Quick reduce
- DES Science Portal (restricted access)
  - Data installation
  - Data preparation
  - Value-added catalogs
  - Science workflows
  - Other ancillary pipelines (e.g. training set maker, random catalogs)
  - Administration
- DES Data server
  - Reductions
  - Coadds (product log, footprint, tile viewer, object viewer)
  - Value-added catalogs
  - Science Workflow products

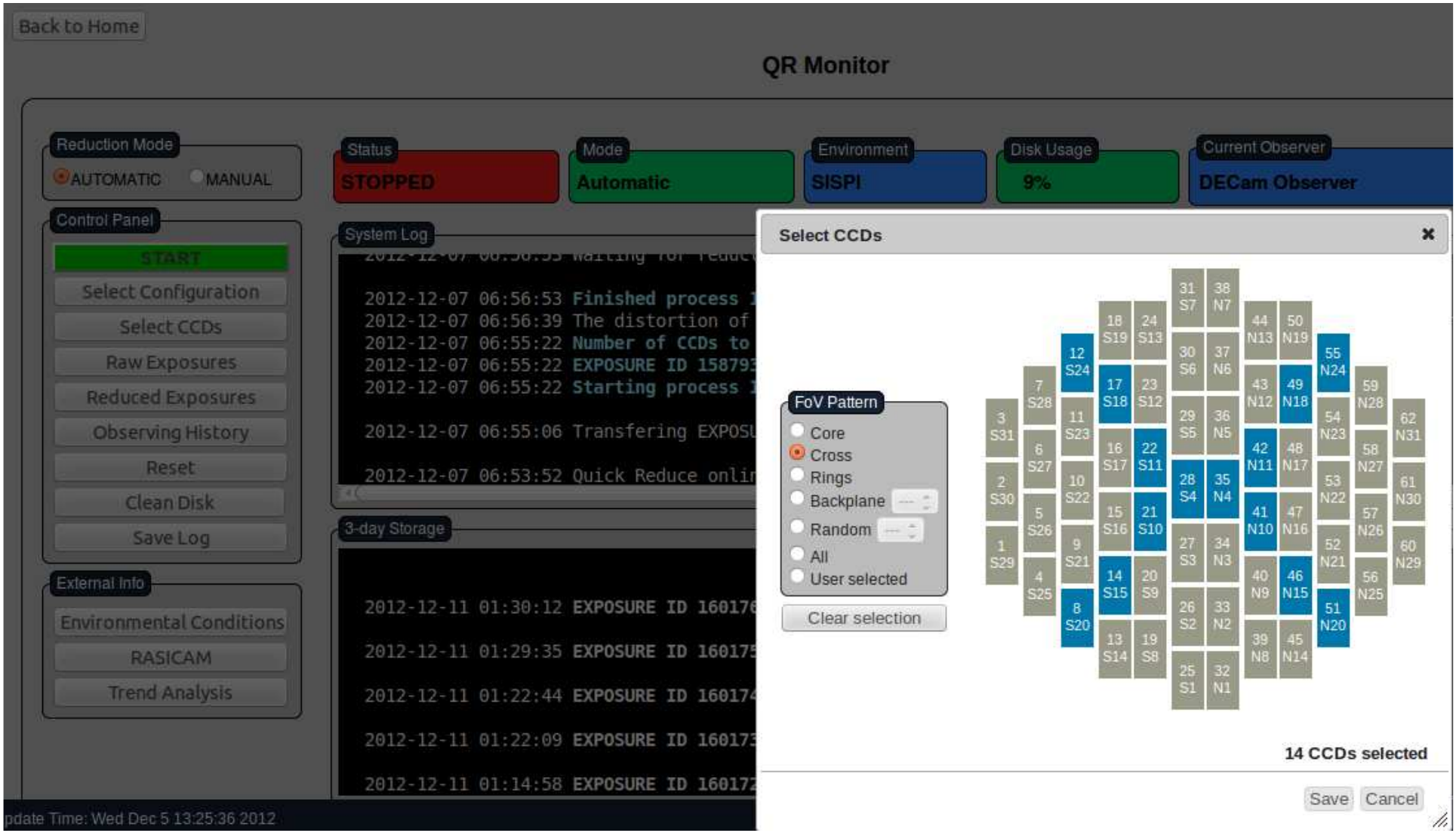
CTIO Portal: all DECam users



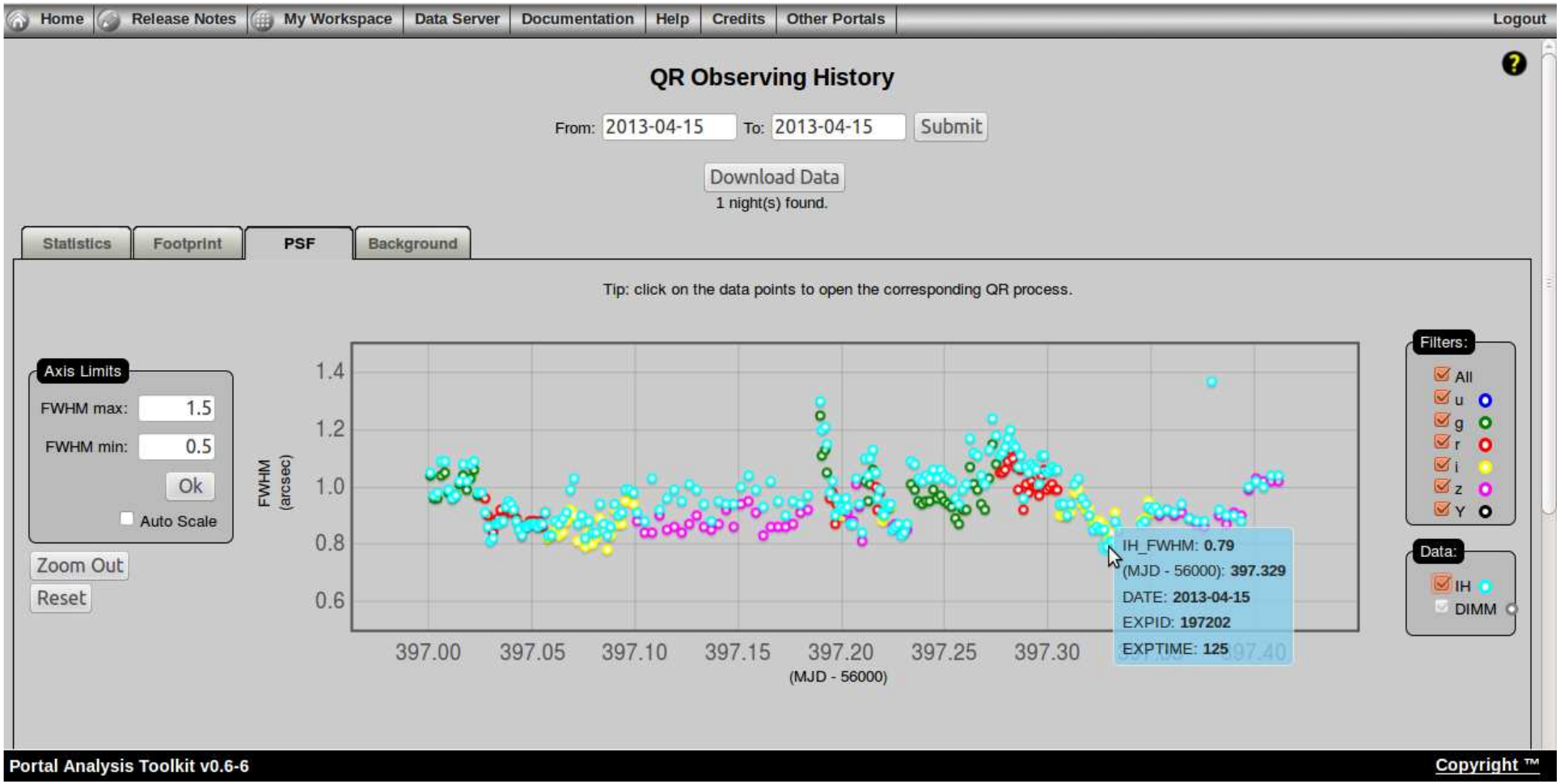
Quick Reduce



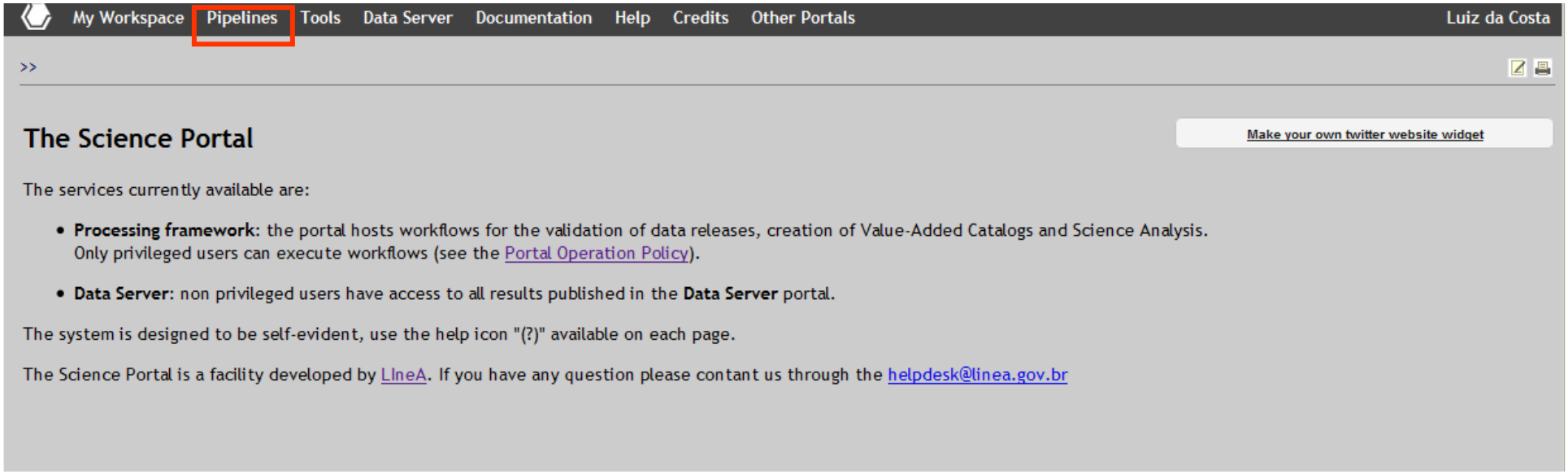
Quick Reduce



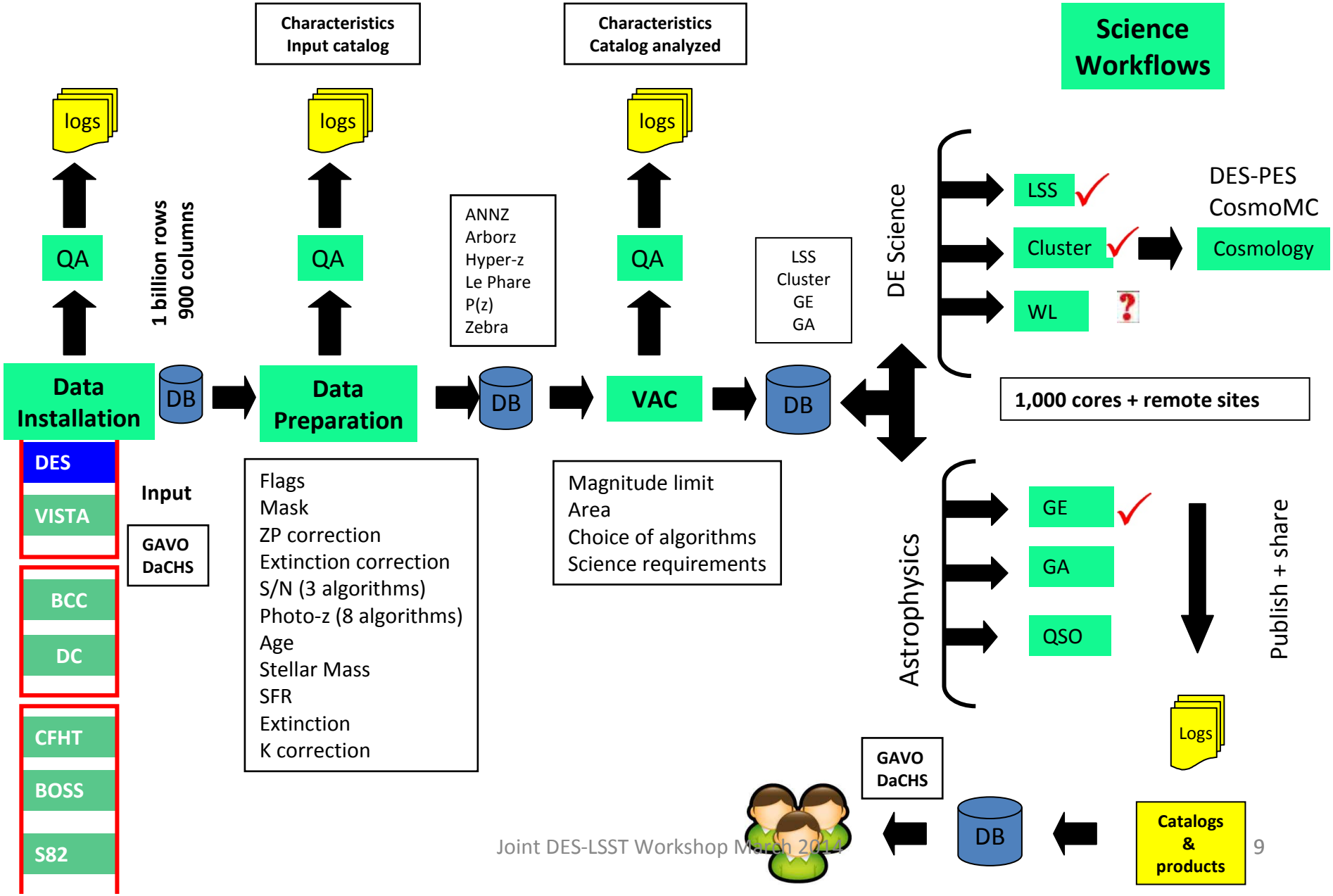
Seeing monitor



Science Portal: restricted Access



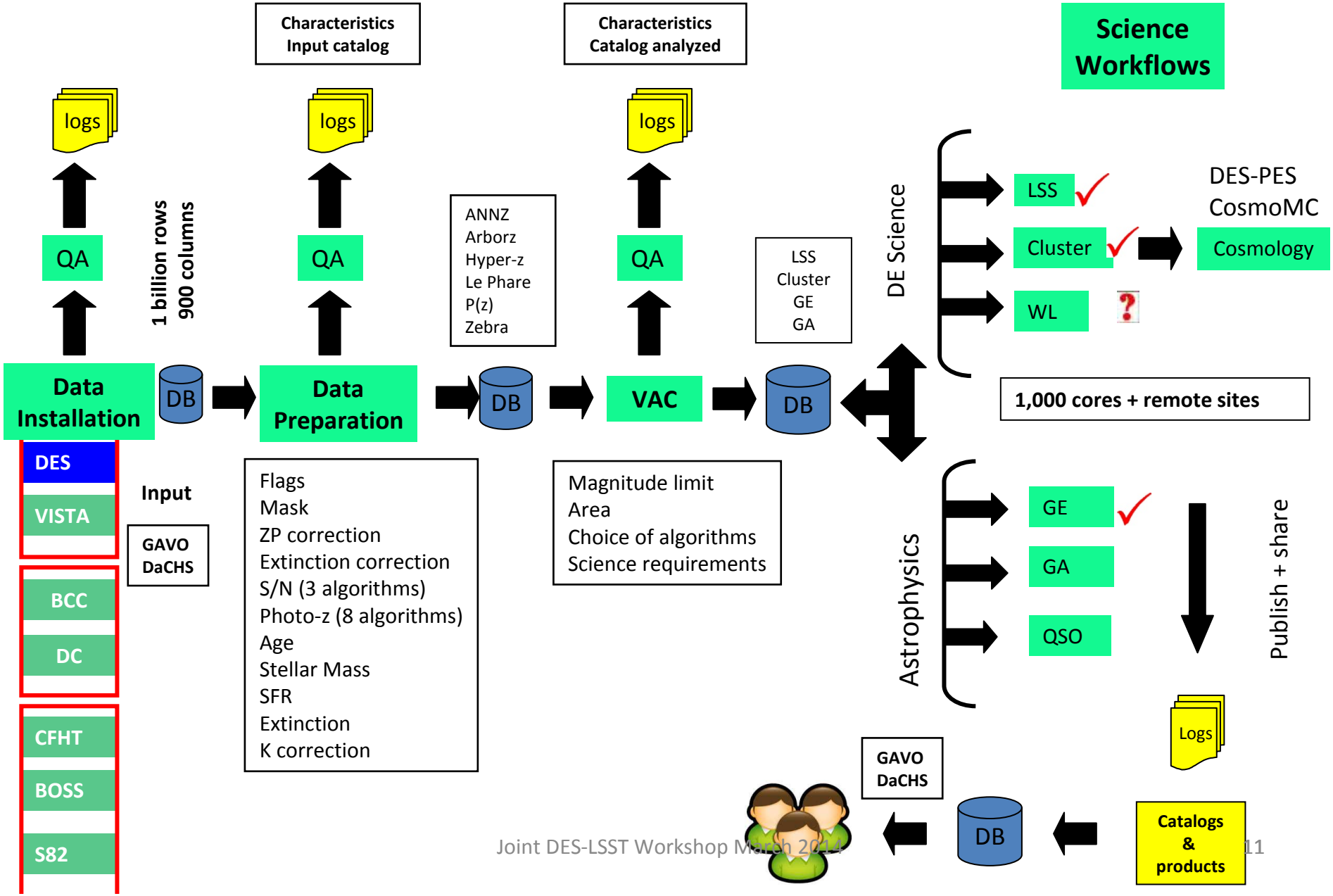
Portal End-to-End Data Flow



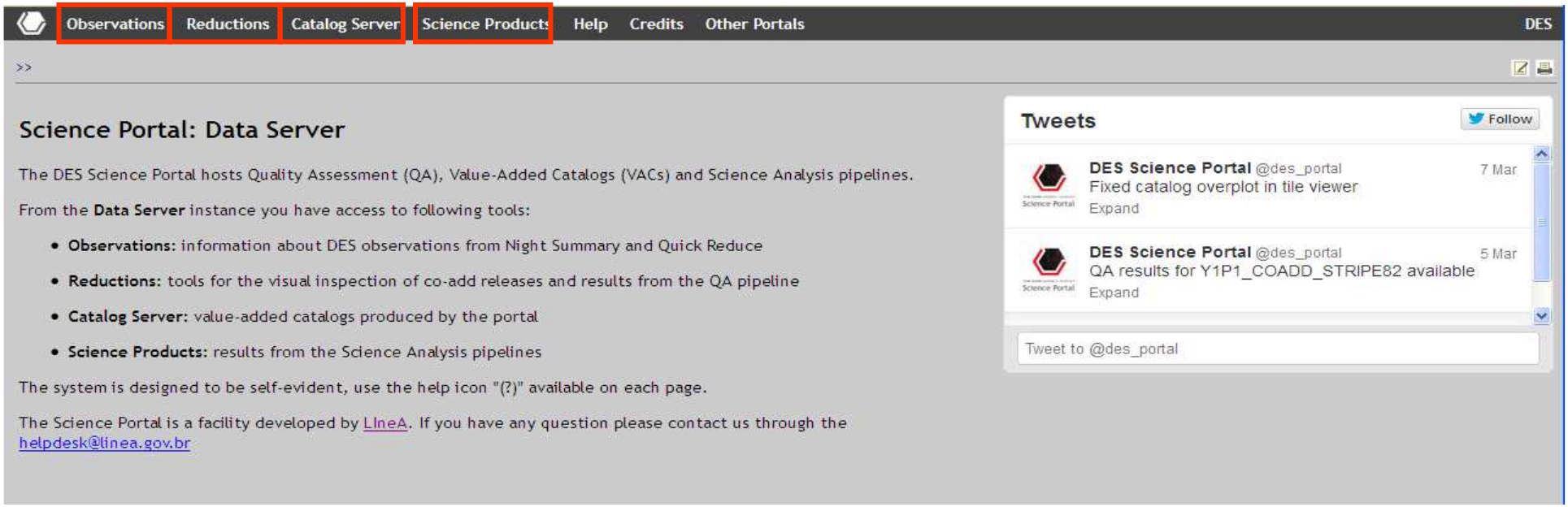
Data Installation

1. Identifies new releases
2. Downloads catalogs and images
3. Ingests catalogs
4. Creates B&W and color pngs at different resolution
5. Selects tiles (complete area and filter coverage)
6. Assesses quality (runs the QA pipeline)
7. Creates lists of outliers and dropouts and makes cutouts
8. Updates release list , footprint, tile viewer
9. Notifies team for final verification
10. Send tweet to collaboration

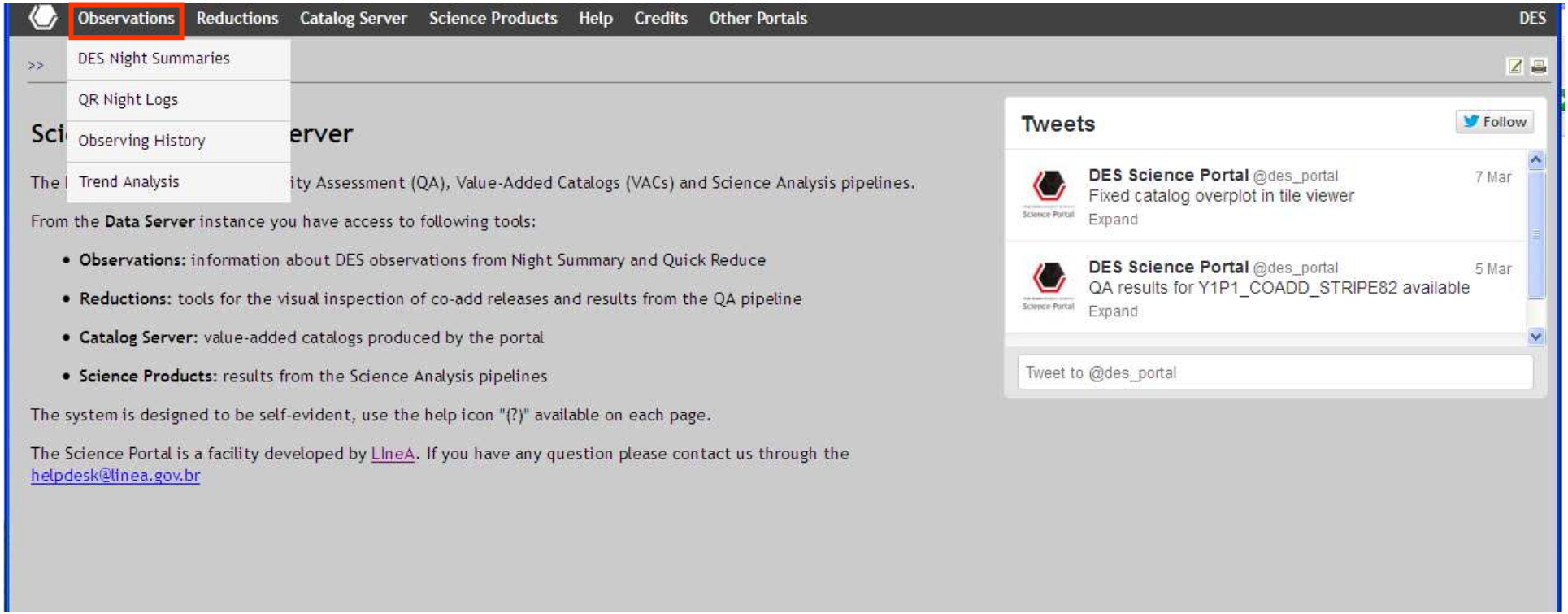
Portal End-to-End Data Flow

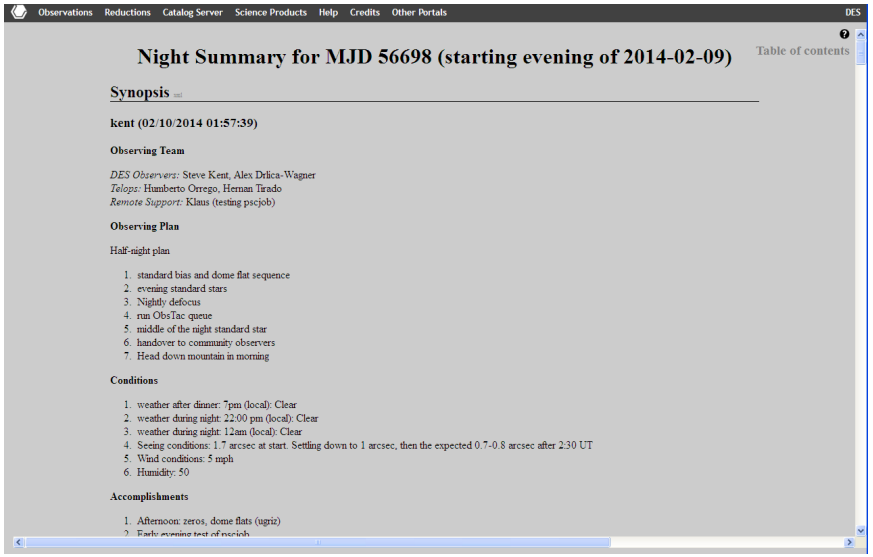


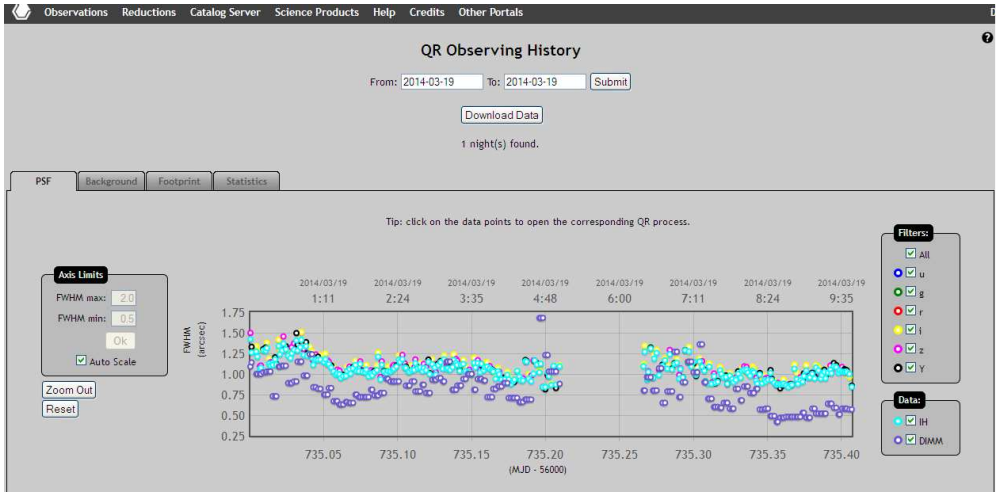
Data Server: open access to the collaboration

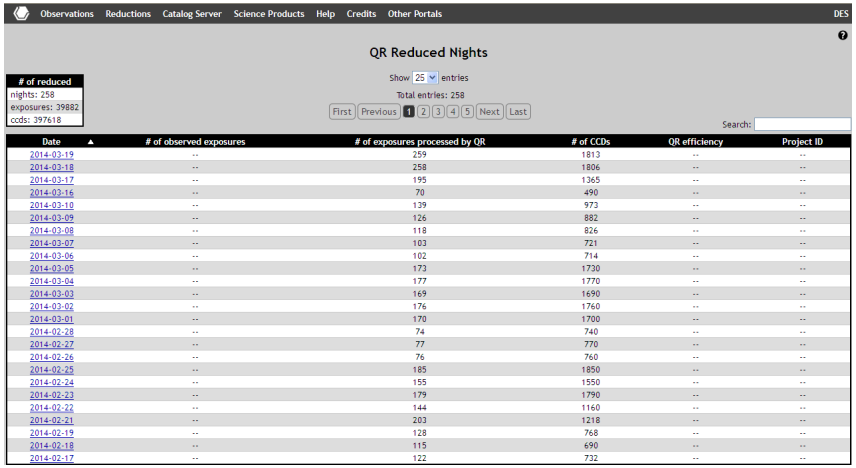


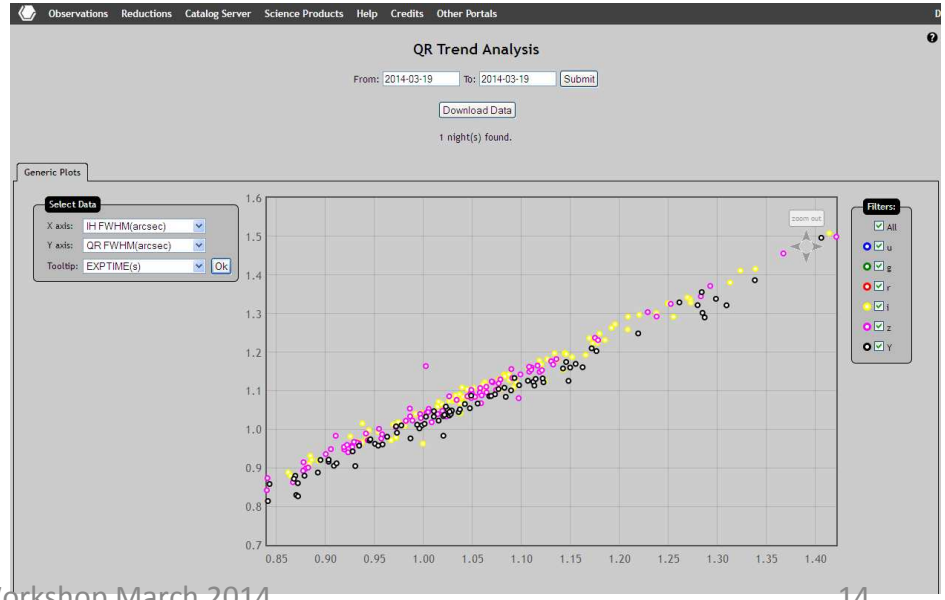
Observations





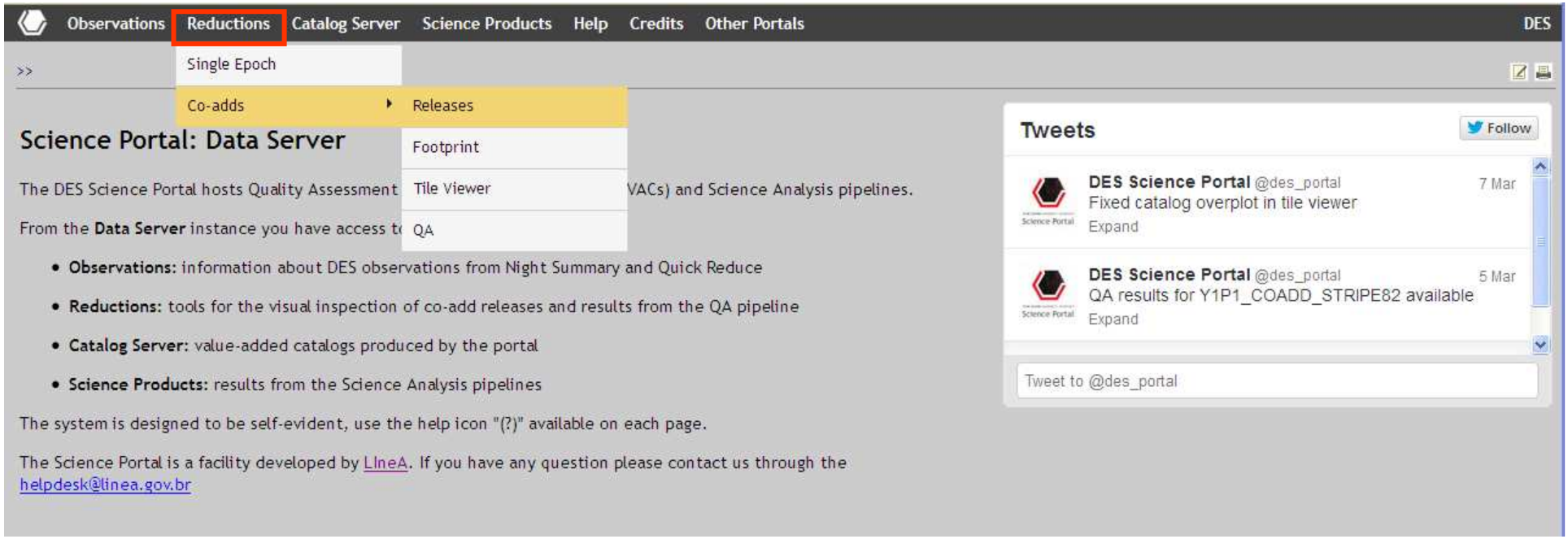


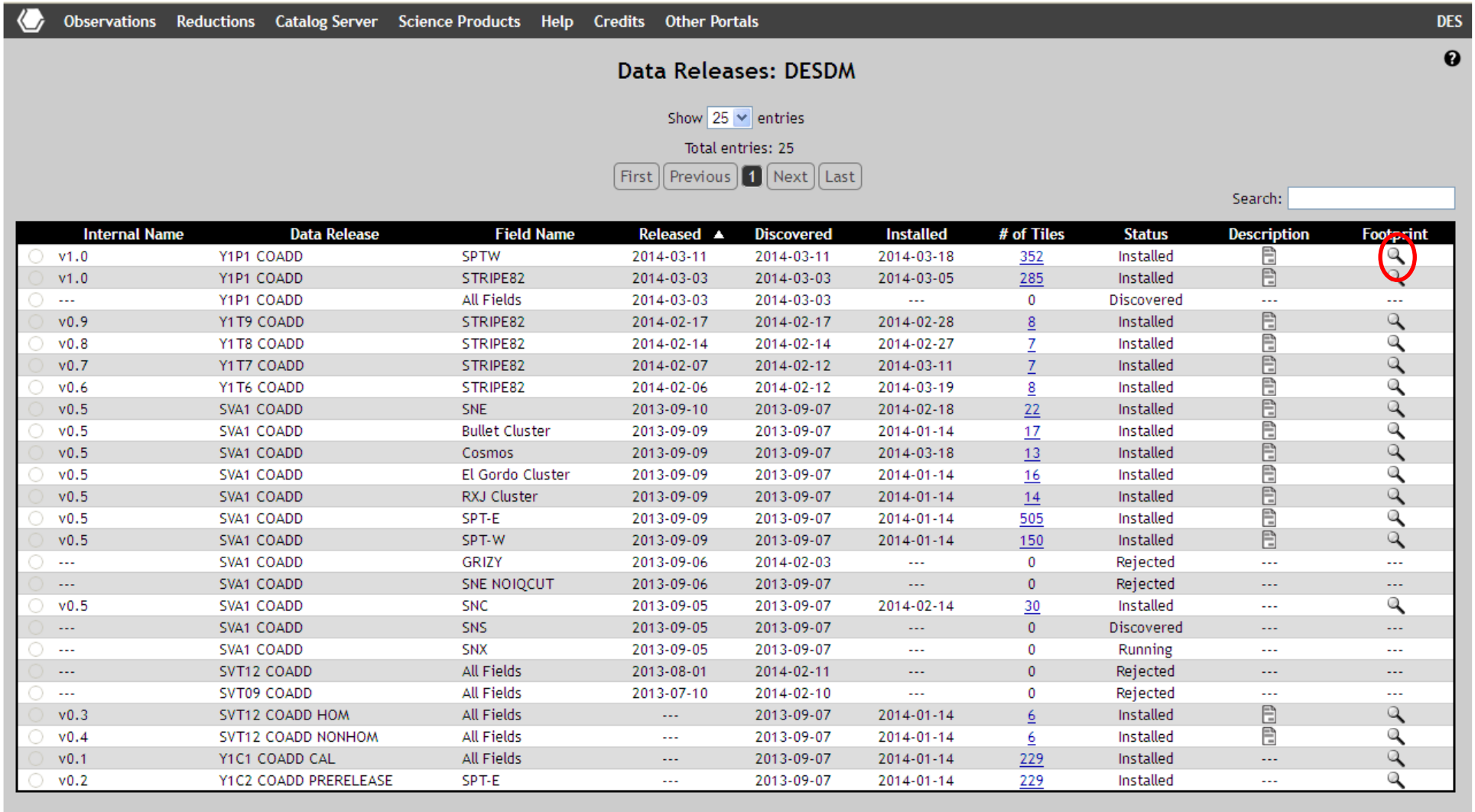




258 nights, 398822 exposures 10% CCDs

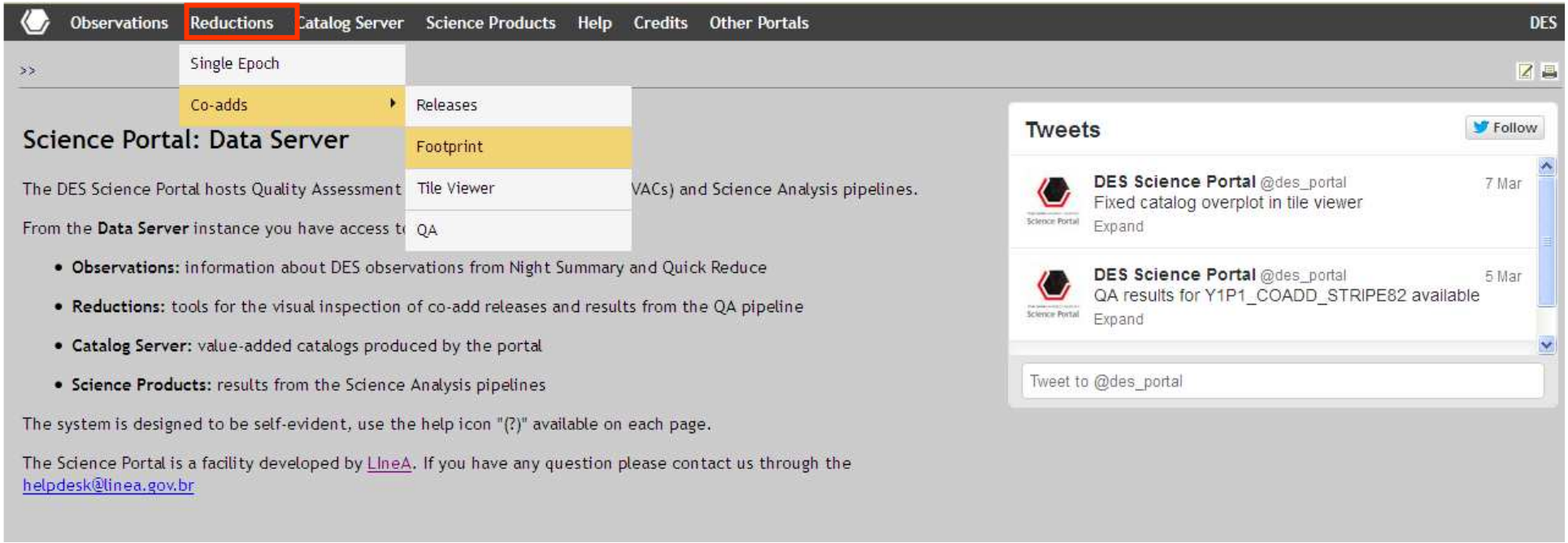
Reductions > Coadd> Releases




Observations Reductions Catalog Server Science Products Help Credits Other Portals DES
Data Releases: DESDM
Show 25 entries
Total entries: 25
First Previous 1 Next Last
Search:
Internal Name | Data Release | Field Name | Released | Discovered | Installed | # of Tiles | Status | Description | Footprint
v1.0 | Y1P1 COADD | SPTW | 2014-03-11 | 2014-03-11 | 2014-03-18 | 352 | Installed
v1.0 | Y1P1 COADD | STRIPE82 | 2014-03-03 | 2014-03-03 | 2014-03-05 | 285 | Installed
--- | Y1P1 COADD | All Fields | 2014-03-03 | 2014-03-03 | --- | 0 | Discovered | --- | ---
v0.9 | Y1T9 COADD | STRIPE82 | 2014-02-17 | 2014-02-17 | 2014-02-28 | 8 | Installed
v0.8 | Y1T8 COADD | STRIPE82 | 2014-02-14 | 2014-02-14 | 2014-02-27 | 7 | Installed
v0.7 | Y1T7 COADD | STRIPE82 | 2014-02-07 | 2014-02-12 | 2014-03-11 | 7 | Installed
v0.6 | Y1T6 COADD | STRIPE82 | 2014-02-06 | 2014-02-12 | 2014-03-19 | 8 | Installed
v0.5 | SVA1 COADD | SNE | 2013-09-10 | 2013-09-07 | 2014-02-18 | 22 | Installed
v0.5 | SVA1 COADD | Bullet Cluster | 2013-09-09 | 2013-09-07 | 2014-01-14 | 17 | Installed
v0.5 | SVA1 COADD | Cosmos | 2013-09-09 | 2013-09-07 | 2014-03-18 | 13 | Installed
v0.5 | SVA1 COADD | El Gordo Cluster | 2013-09-09 | 2013-09-07 | 2014-01-14 | 16 | Installed
v0.5 | SVA1 COADD | RXJ Cluster | 2013-09-09 | 2013-09-07 | 2014-01-14 | 14 | Installed
v0.5 | SVA1 COADD | SPT-E | 2013-09-09 | 2013-09-07 | 2014-01-14 | 505 | Installed
v0.5 | SVA1 COADD | SPT-W | 2013-09-09 | 2013-09-07 | 2014-01-14 | 150 | Installed
--- | SVA1 COADD | GRIZY | 2013-09-06 | 2014-02-03 | --- | 0 | Rejected | --- | ---
--- | SVA1 COADD | SNE NOIQCUT | 2013-09-06 | 2013-09-07 | --- | 0 | Rejected | --- | ---
v0.5 | SVA1 COADD | SNC | 2013-09-05 | 2013-09-07 | 2014-02-14 | 30 | Installed | --- | ---
--- | SVA1 COADD | SNS | 2013-09-05 | 2013-09-07 | --- | 0 | Discovered | --- | ---
--- | SVA1 COADD | SNX | 2013-09-05 | 2013-09-07 | --- | 0 | Running | --- | ---
--- | SVT12 COADD | All Fields | 2013-08-01 | 2014-02-11 | --- | 0 | Rejected | --- | ---
--- | SVT09 COADD | All Fields | 2013-07-10 | 2014-02-10 | --- | 0 | Rejected | --- | ---
v0.3 | SVT12 COADD HOM | All Fields | --- | 2013-09-07 | 2014-01-14 | 6 | Installed
v0.4 | SVT12 COADD NONHOM | All Fields | --- | 2013-09-07 | 2014-01-14 | 6 | Installed
v0.1 | Y1C1 COADD CAL | All Fields | --- | 2013-09-07 | 2014-01-14 | 229 | Installed | --- | ---
v0.2 | Y1C2 COADD PRERELEASE | SPT-E | --- | 2013-09-07 | 2014-01-14 | 229 | Installed | --- | ---

My Workspace
Pipelines
Tools
Data Server
Documentation
Help
Credits
Other Portals
Footprint
Field Tags
v1.0 (Y1P1 COADD)
STRIPE82
SPTW
v0.9 (Y1T9 COADD)
v0.8 (Y1T8 COADD)
v0.7 (Y1T7 COADD)
v0.6 (Y1T6 COADD)
v0.5 (SVA1 COADD)
v0.4 (SVT12 COADD NONHOM)
v0.3 (SVT12 COADD HOM)
v0.2 (Y1C2 COADD PRERELEASE)
v0.1 (Y1C1 COADD CAL)
RA (hh:mm)
reset
zoom out
zoom
19:19 20:00 20:40 21:19 22:00 22:40 23:19 0:00 0:40 1:19 2:00 2:39 3:20 4:00 4:40 5:19 6:00
Dec (deg)
10 0 -10 -20 -30 -40 -50 -60
-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90
RA (deg)
DES Footprint
VIKING
STRIPE 82
SPT
ROUND 82
ALL TILES
External Catalogs
VVDS CDFS
VVDS 0430
S82
CFHTLS D1
UCAC3 (all Sky)
APASS (all Sky)
2MASS (all Sky)

Reductions > Coadd > Footprint



Observations
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Catalog Server
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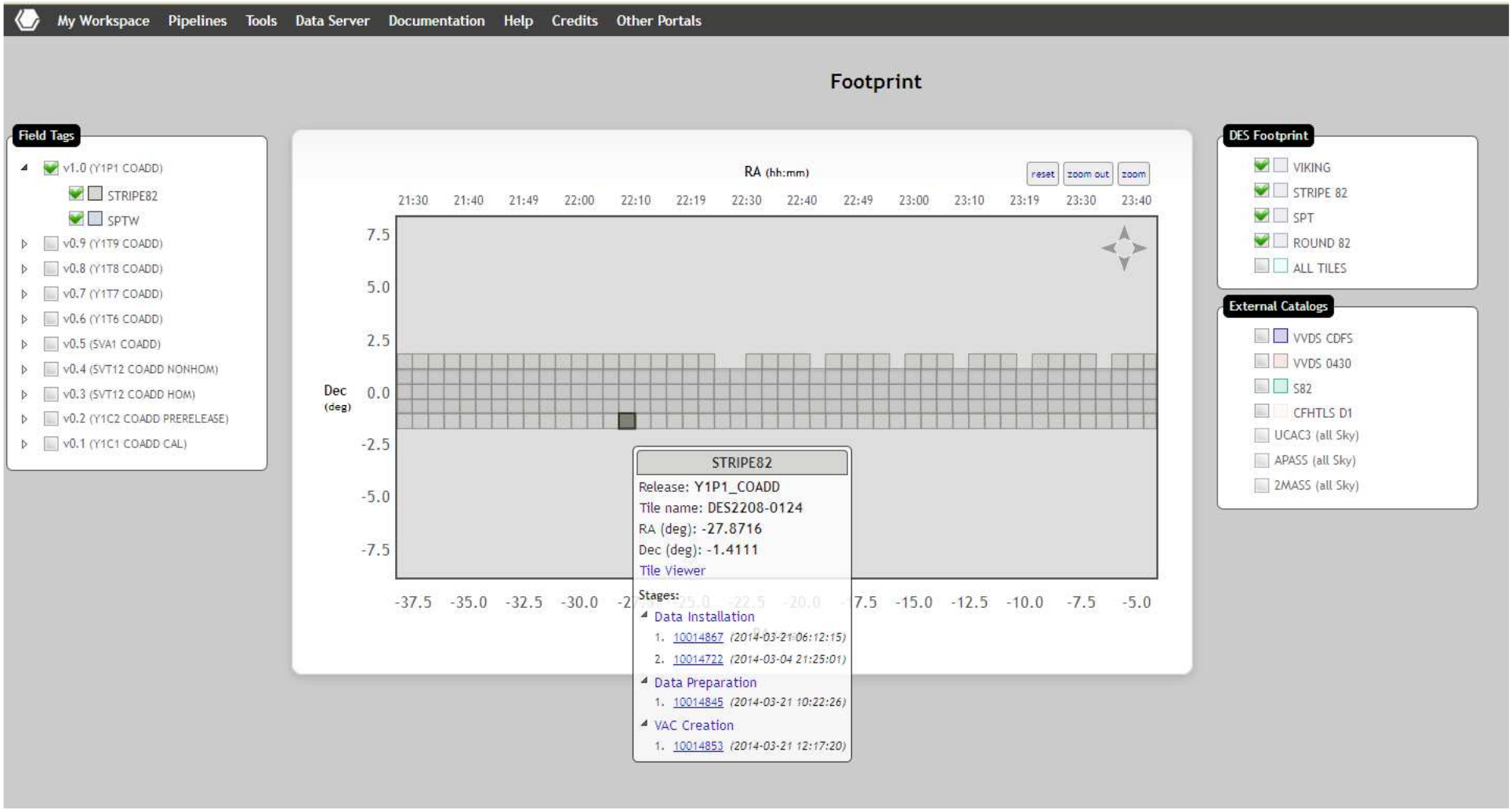
Field Tags
v1.0 (Y1P1 COADD)
STRIPE82
SPTW
v0.9 (Y1T9 COADD)
v0.8 (Y1T8 COADD)
v0.7 (Y1T7 COADD)
v0.6 (Y1T6 COADD)
v0.5 (SVA1 COADD)
SPT-W
SPT-E
SNE
SNC
RXJ Cluster
El Gordo Cluster
Cosmos
Bullet Cluster
v0.4 (SVT12 COADD NONHOM)
v0.3 (SVT12 COADD HOM)
v0.2 (Y1C2 COADD PRERELEASE)
v0.1 (Y1C1 COADD CAL)
RA (hh:mm)
reset
zoom out
zoom
20:00 20:40 21:19 22:00 22:40 23:19 0:00 0:40 1:19 2:00 2:39 3:20 4:00 4:40 5:19 6:00 6:40
Dec (deg)
10 0 -10 -20 -30 -40 -50 -60 -70
-60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100
RA (deg)
DES Footprint
VIKING
STRIPE 82
SPT
ROUND 82
ALL TILES
External Catalogs
VVDS CDFS
VVDS 0430
S82
CFHTLS D1
UCAC3 (all Sky)
APASS (all Sky)
2MASS (all Sky)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v1.0 (Y1P1 COADD)
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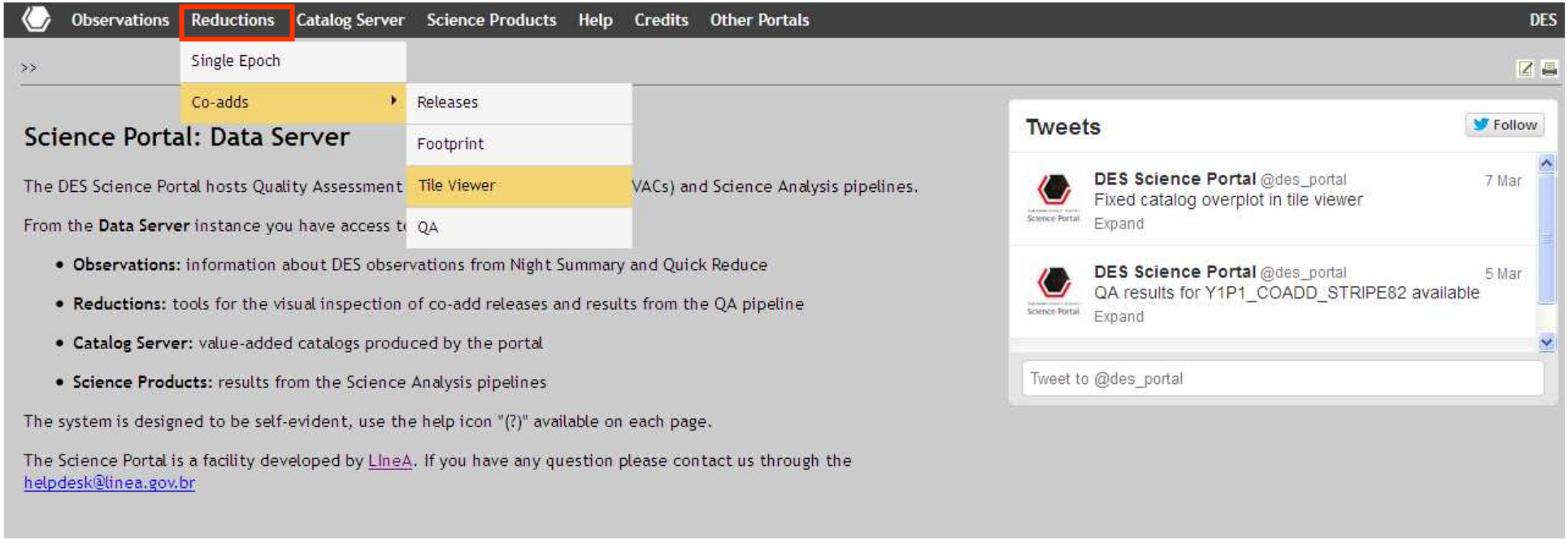
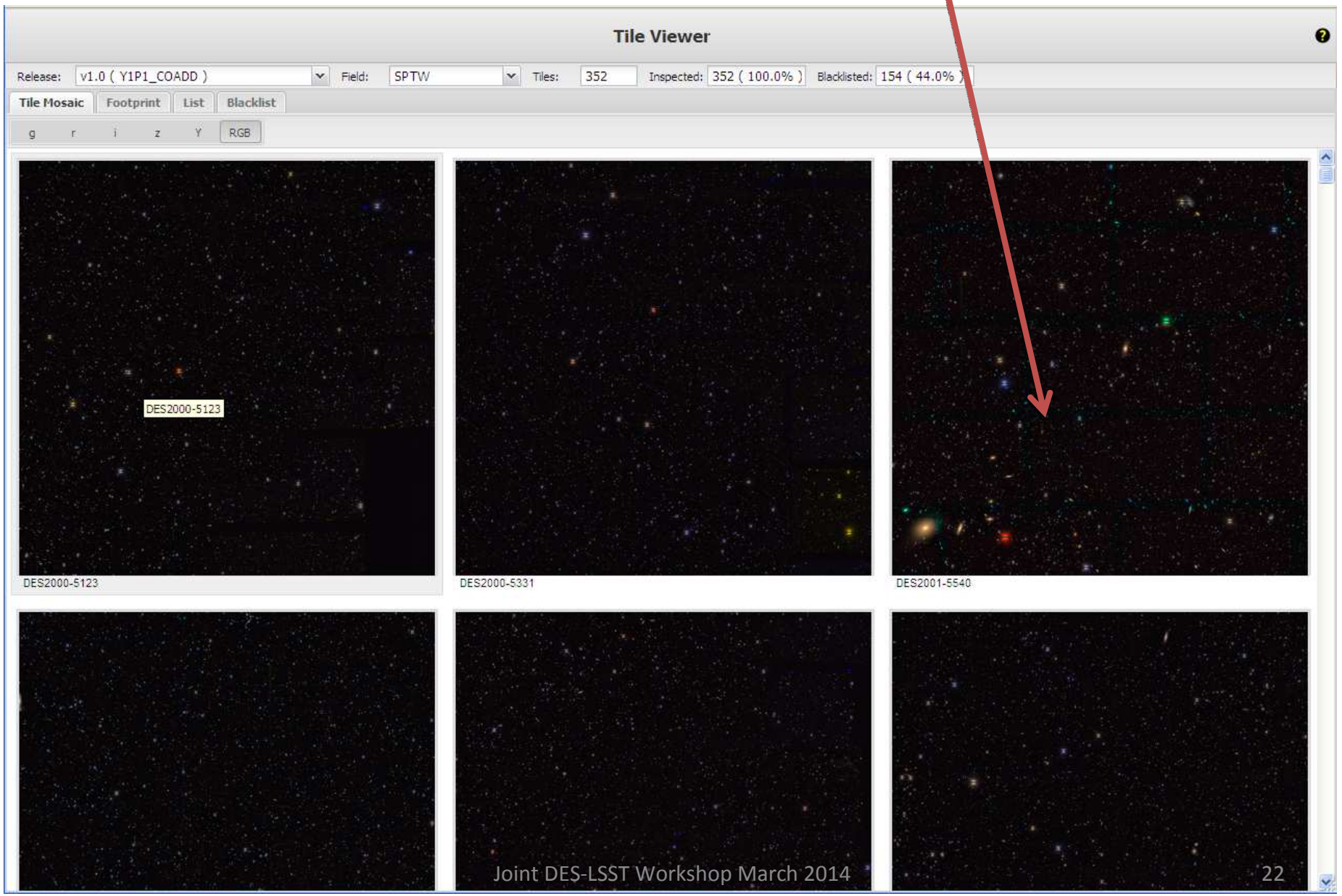
v0.6 (Y1T6 COADD)
v0.5 (SVA1 COADD)
v0.4 (SVT12 COADD NONHOM)
v0.3 (SVT12 COADD HOM)
v0.2 (Y1C2 COADD PRERELEASE)
v0.1 (Y1C1 COADD CAL)
RA (hh:mm)
reset
zoom out
zoom
21:30
21:40
21:49
22:00
22:10
22:19
22:30
22:40
22:49
23:00
23:10
23:19
23:30
23:40
Dec (deg)
7.5
5.0
2.5
0.0
-2.5
-5.0
-7.5
-37.5
-35.0
-32.5
-30.0
-15.0
-12.5
-10.0
-7.5
-5.0
STRIPE82
Release: Y1P1_COADD
Tile name: DES2208-0124
RA (deg): -27.8716
Dec (deg): -1.4111
Tile Viewer
Stages:
Data Installation
1. 10014867 (2014-03-21 06:12:15)
2. 10014722 (2014-03-04 21:25:01)
Data Preparation
1. 10014845 (2014-03-21 10:22:26)
VAC Creation
1. 10014853 (2014-03-21 12:17:20)
DES Footprint
VIKING
STRIPE 82
SPT
ROUND 82
ALL TILES
External Catalogs
VVDS CDFS
VVDS 0430
S82
CFHTLS D1
UCAC3 (all Sky)
APASS (all Sky)
2MASS (all Sky)

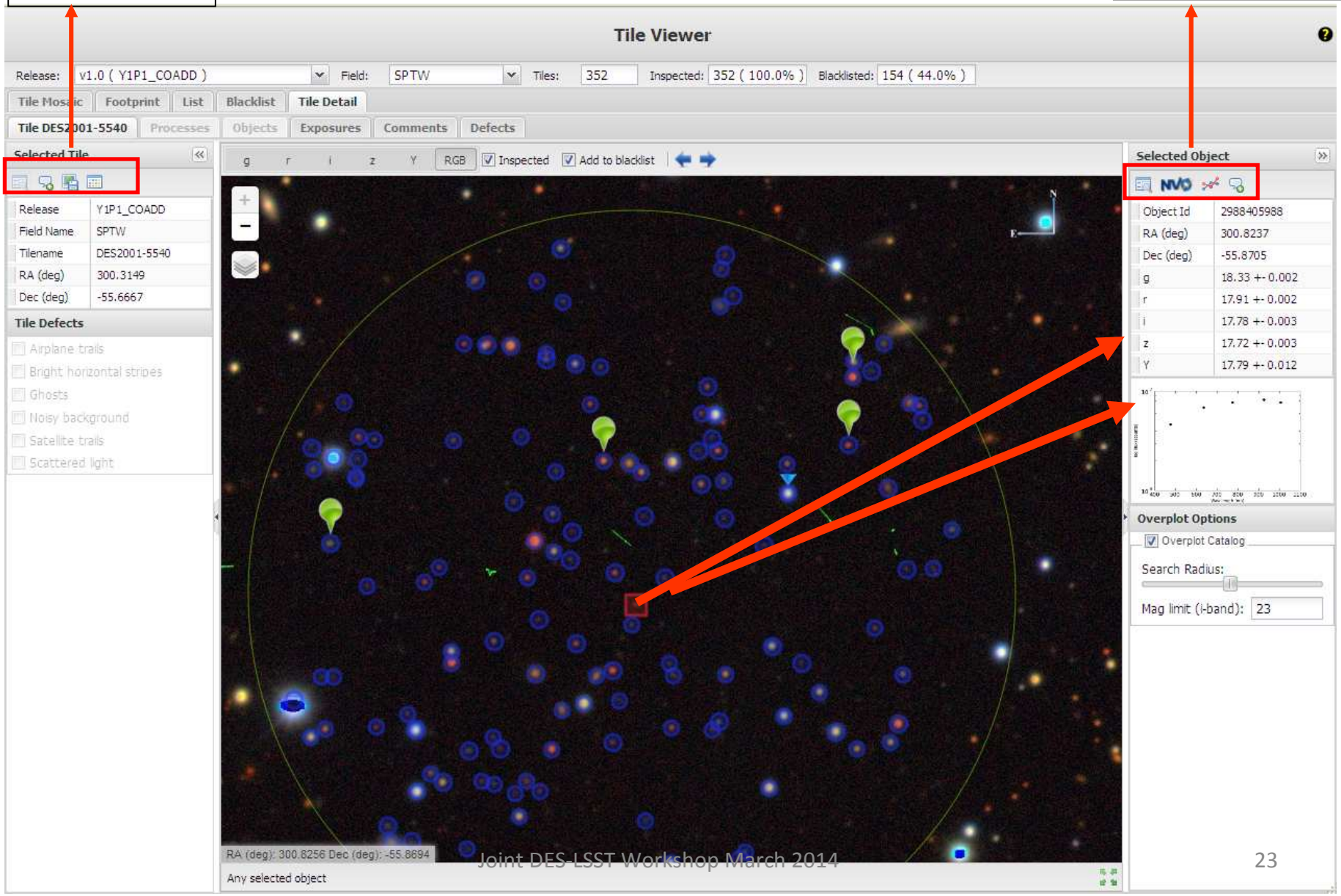
Reductions > Coadds > Tile viewer

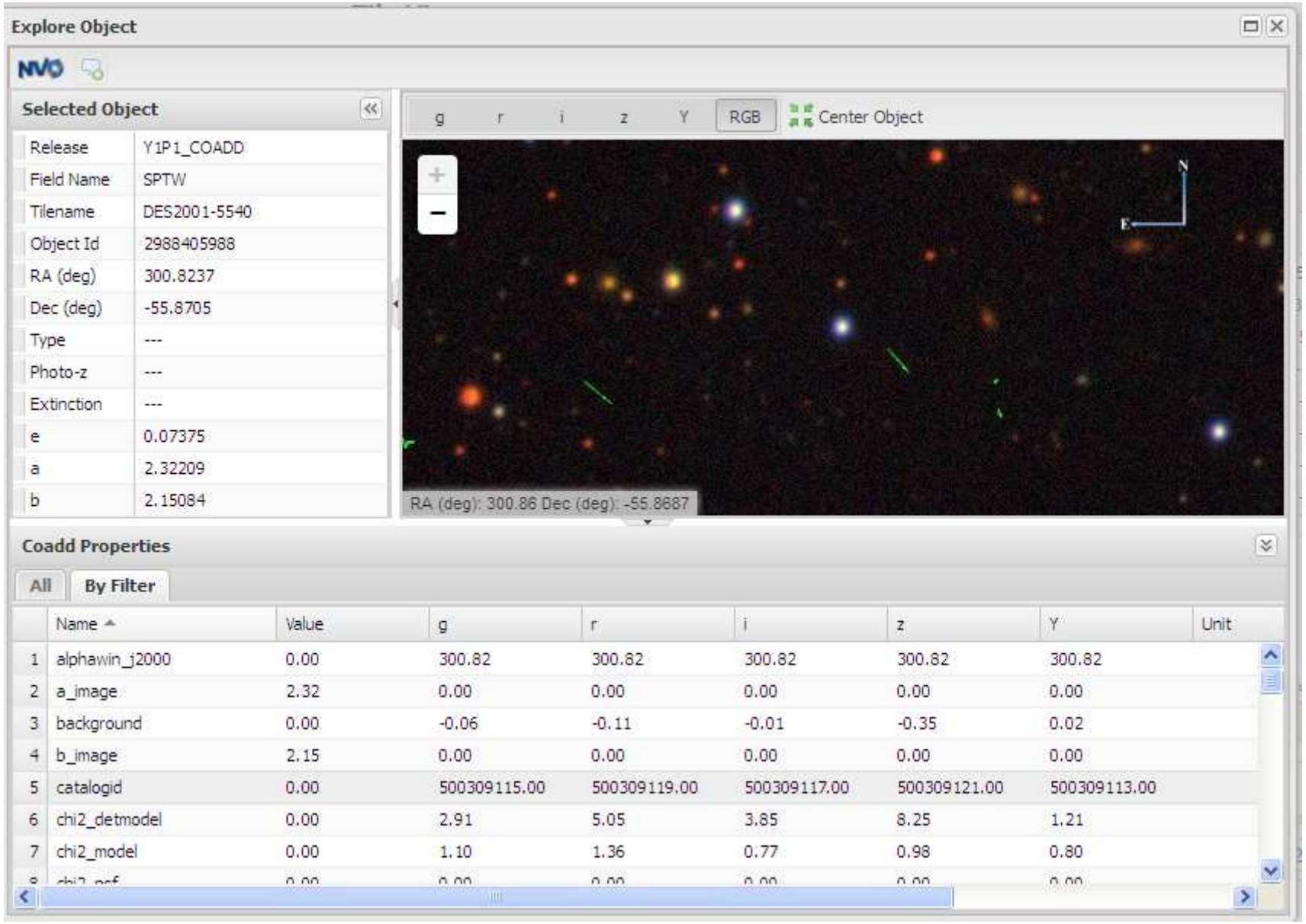


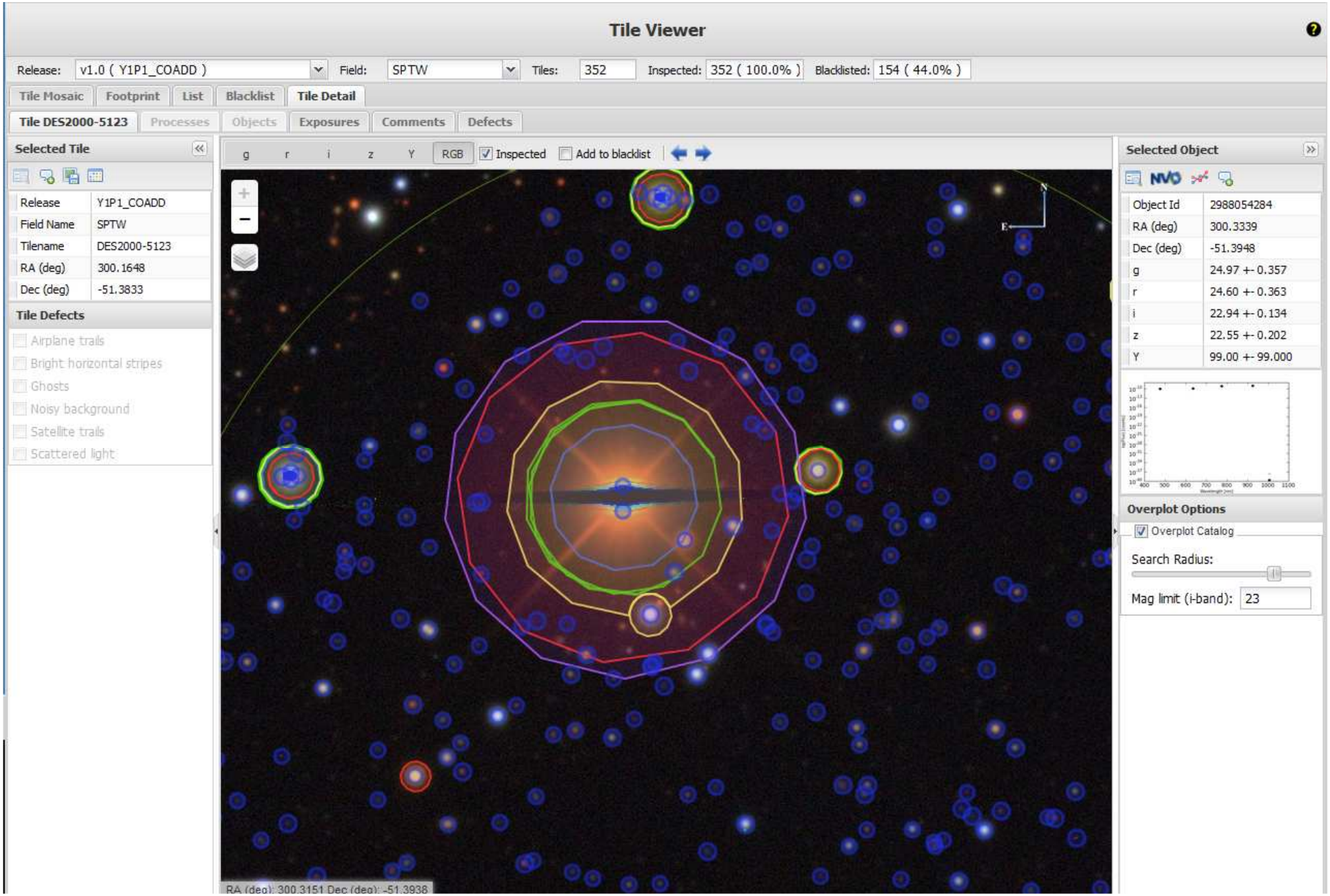

Tile Viewer
Release: v1.0 (Y1P1_COADD)
Field: SPTW
Tiles: 352
Inspected: 352 (100.0%)
Blacklisted: 154 (44.0%)
Tile Mosaic
Footprint
List
Blacklist
g
r
i
z
Y
RGB
DES2000-5123
DES2000-5123
DES2000-5331
DES2001-5540

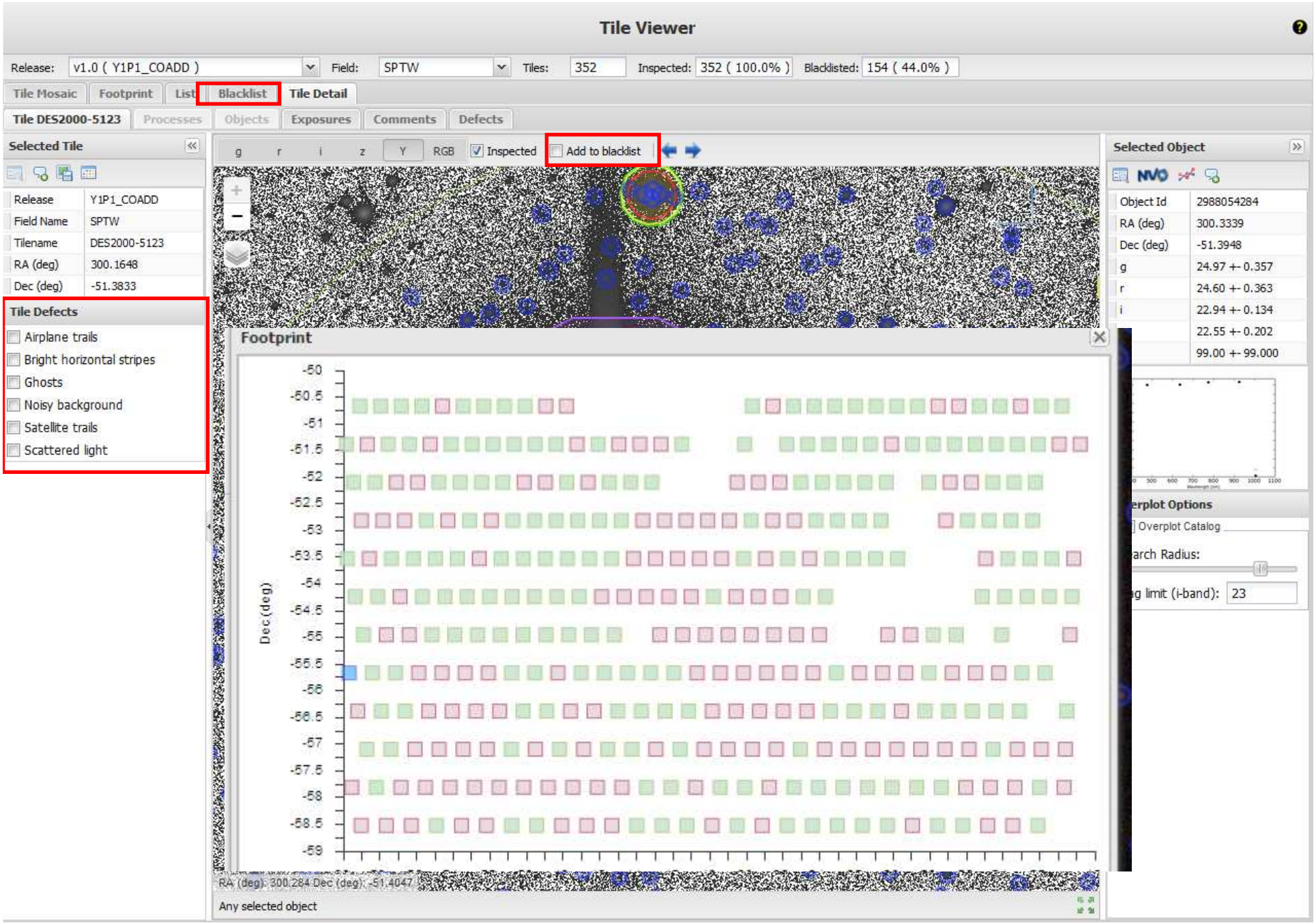
QA results
Tile comments
FITs image
footprint

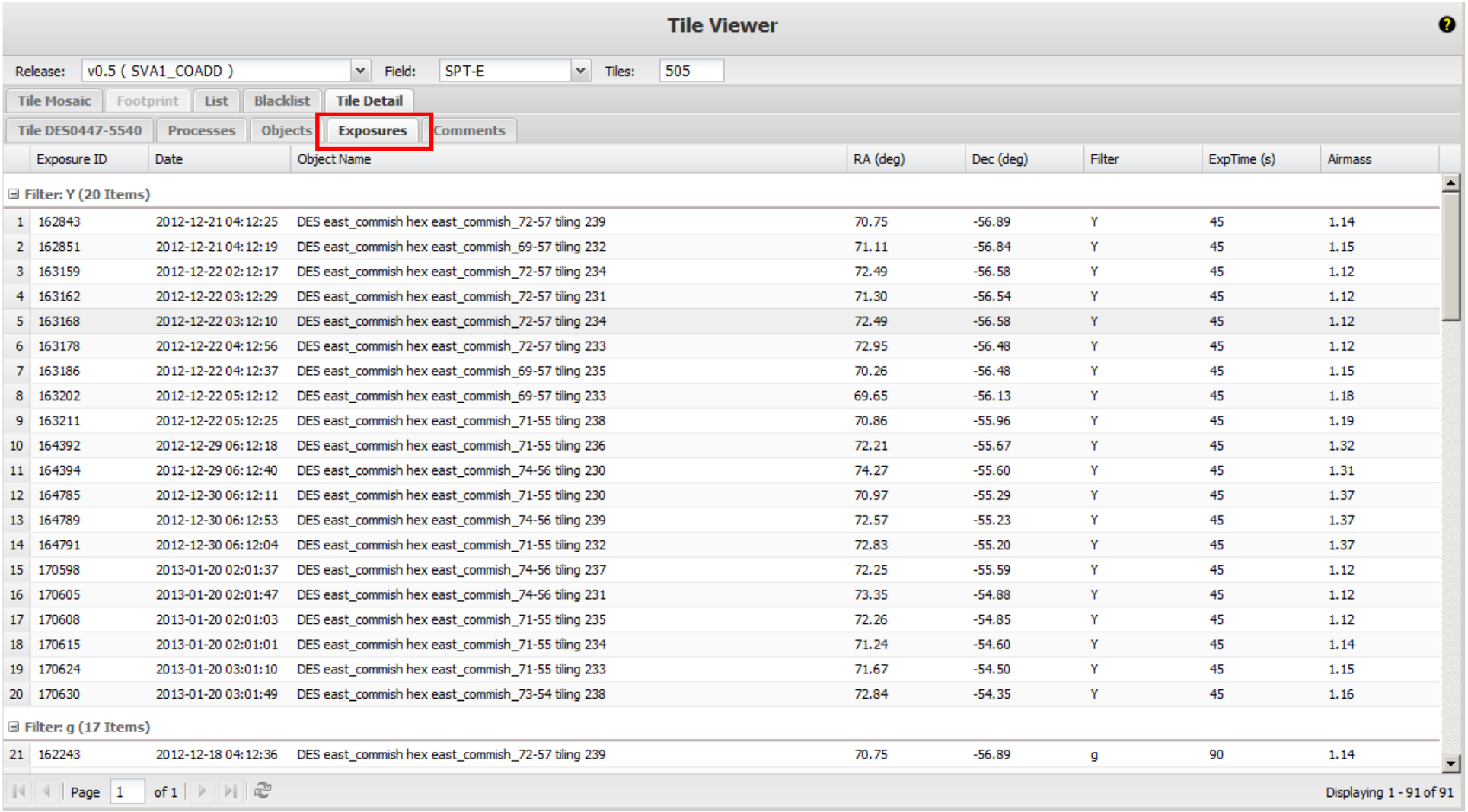
Explore
NVO datascope
Flux plot
Object comment




Explore Object
Selected Object
Release Y1P1_COADD
Field Name SPTW
Tilename DES2001-5540
Object Id 2988405988
RA (deg) 300.8237
Dec (deg) -55.8705
Type ---
Photo-z ---
Extinction ---
e 0.07375
a 2.32209
b 2.15084
g r i z Y RGB Center Object
N E
RA (deg): 300.86 Dec (deg): -55.8687
Coadd Properties
All By Filter
Name Value g r i z Y Unit
1 alphawin_j2000 0.00 300.82 300.82 300.82 300.82 300.82
2 a_image 2.32 0.00 0.00 0.00 0.00 0.00
3 background 0.00 -0.06 -0.11 -0.01 -0.35 0.02
4 b_image 2.15 0.00 0.00 0.00 0.00 0.00
5 catalogid 0.00 500309115.00 500309119.00 500309117.00 500309121.00 500309113.00
6 chi2_detmodel 0.00 2.91 5.05 3.85 8.25 1.21
7 chi2_model 0.00 1.10 1.36 0.77 0.98 0.80


Tile Viewer
Release: v1.0 (Y1P1_COADD)
Field: SPTW
Tiles: 352
Inspected: 352 (100.0%)
Blacklisted: 154 (44.0%)
Tile Mosaic
Footprint
List
Blacklist
Tile Detail
Tile DES2000-5123
Processes
Objects
Exposures
Comments
Defects
Selected Tile
Release Y1P1_COADD
Field Name SPTW
Tilename DES2000-5123
RA (deg) 300.1648
Dec (deg) -51.3833
Tile Defects
Airplane trails
Bright horizontal stripes
Ghosts
Noisy background
Satellite trails
Scattered light
g
r
i
z
Y
RGB
Inspected
Add to blacklist
N
E
RA (deg): 300.3151 Dec (deg): -51.3938
Selected Object
Object Id 2988054284
RA (deg) 300.3339
Dec (deg) -51.3948
g 24.97 +- 0.357
r 24.60 +- 0.363
i 22.94 +- 0.134
z 22.55 +- 0.202
Y 99.00 +- 99.000
Overplot Options
Overplot Catalog
Search Radius:
Mag limit (i-band): 23


Tile Viewer
Release: v1.0 (Y1P1_COADD)
Field: SPTW
Tiles: 352
Inspected: 352 (100.0%)
Blacklisted: 154 (44.0%)
Tile Mosaic
Footprint
List
Blacklist
Tile Detail
Tile DES2000-5123
Processes
Objects
Exposures
Comments
Defects
Selected Tile
Release Y1P1_COADD
Field Name SPTW
Tilename DES2000-5123
RA (deg) 300.1648
Dec (deg) -51.3833
Tile Defects
Airplane trails
Bright horizontal stripes
Ghosts
Noisy background
Satellite trails
Scattered light
g r i z Y RGB
Inspected
Add to blacklist
Footprint
Dec (deg)
-50
-50.5
-51
-51.5
-52
-52.5
-53
-53.5
-54
-54.5
-55
-55.5
-56
-56.5
-57
-57.5
-58
-58.5
-59
RA (deg): 300.284 Dec (deg): -51.4047
Any selected object
Selected Object
Object Id 2988054284
RA (deg) 300.3339
Dec (deg) -51.3948
g 24.97 +- 0.357
r 24.60 +- 0.363
i 22.94 +- 0.134
22.55 +- 0.202
99.00 +- 99.000
Overplot Options
Overplot Catalog
arch Radius:
g limit (i-band): 23



Tile Viewer

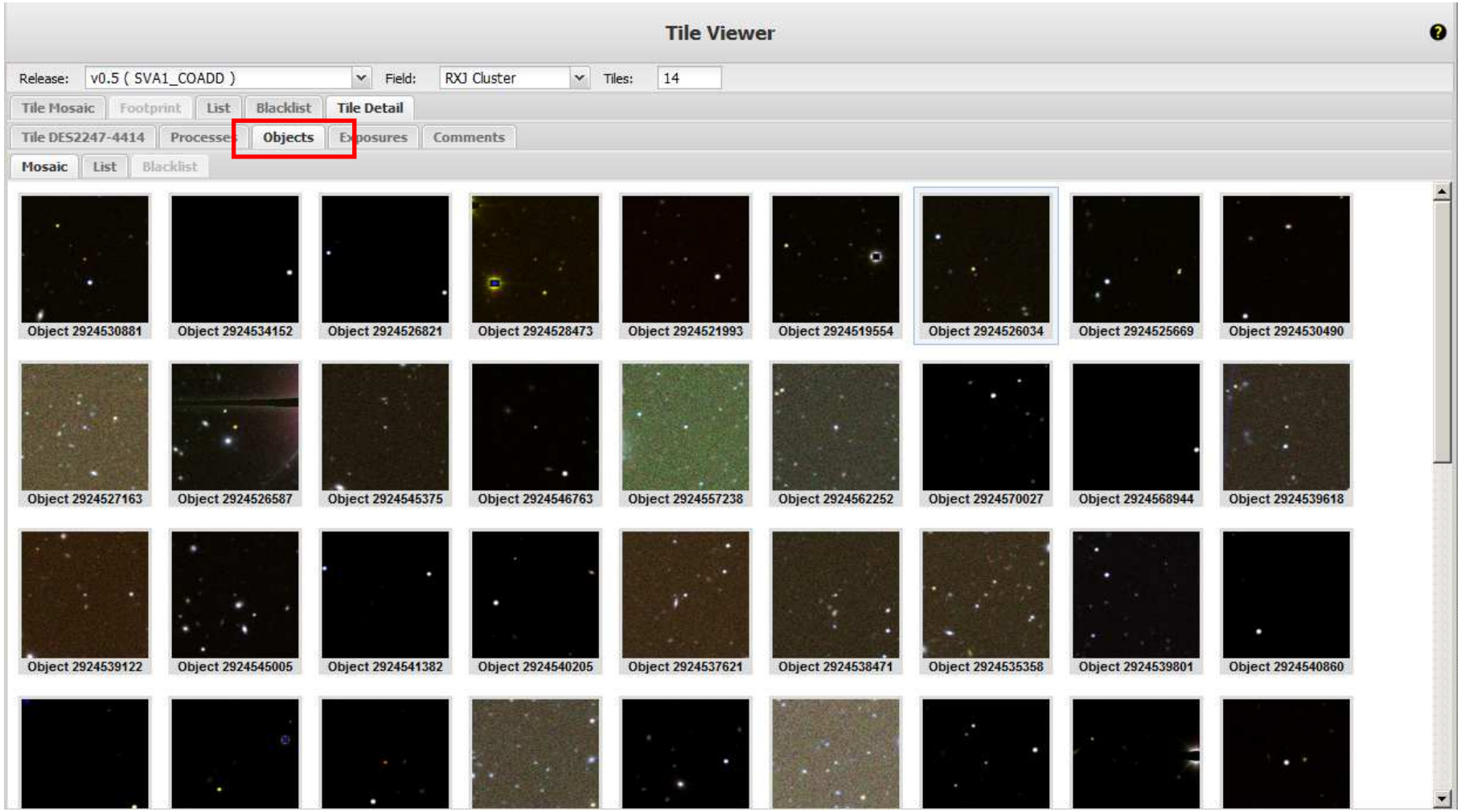
Release: v0.5 (SVA1_COADD) Field: SPT-E Tiles: 505

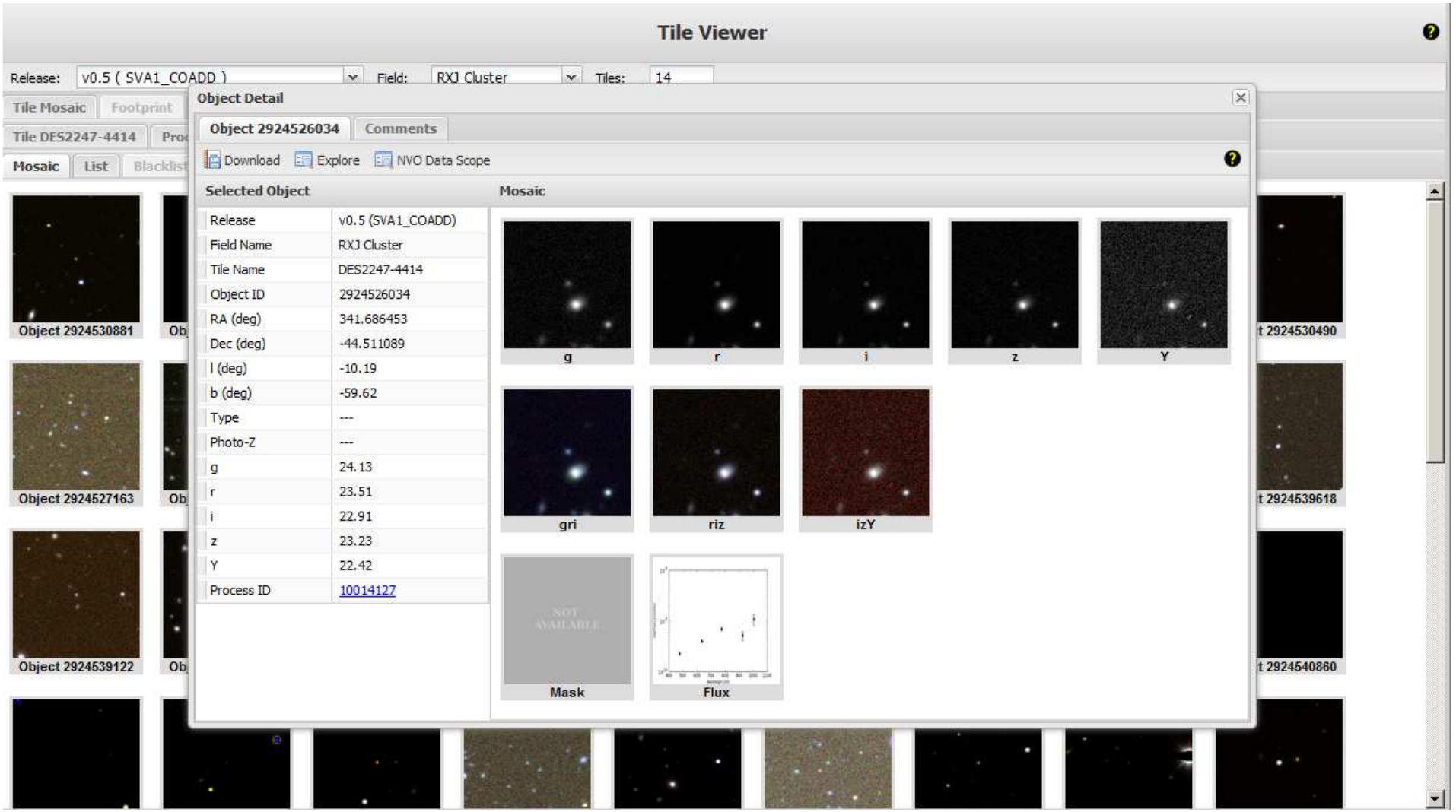
Tile Mosaic | Footprint | List | Blacklist | Tile Detail

Tile DES0447-5540 | Processes | Objects | Exposures | Comments

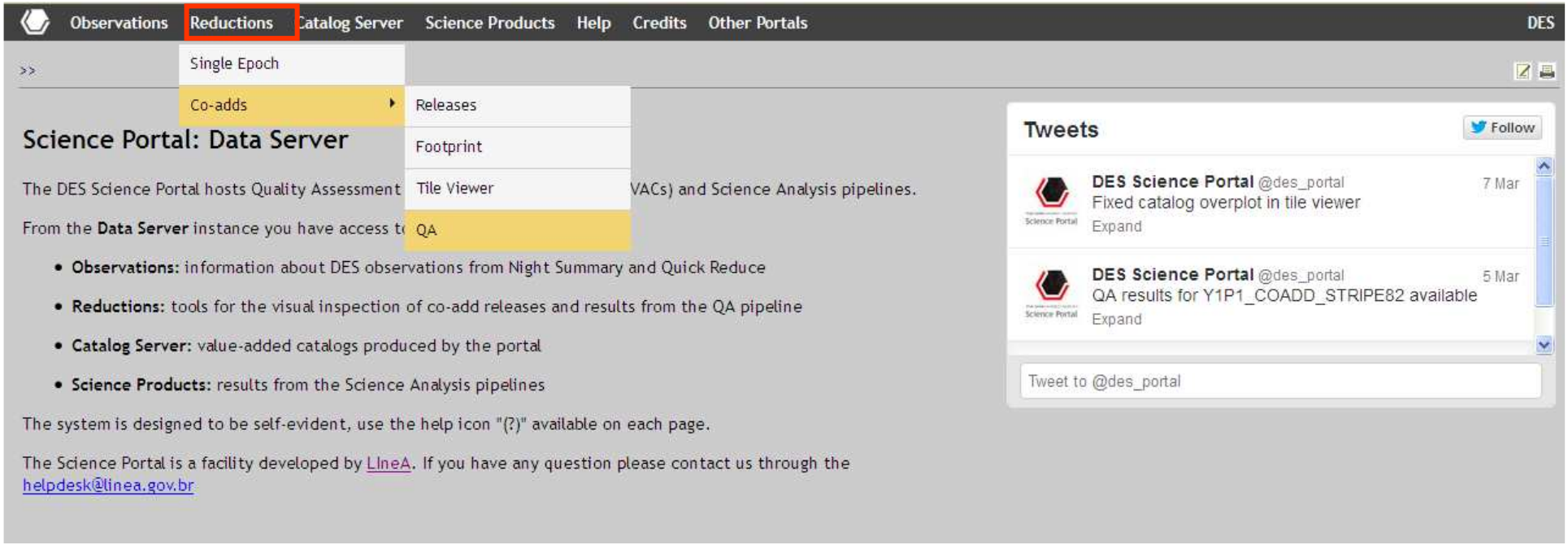
	Exposure ID	Date	Object Name	RA (deg)	Dec (deg)	Filter	ExpTime (s)	Airmass
Filter: Y (20 Items)								
1	162843	2012-12-21 04:12:25	DES east_commish hex east_commish_72-57 tiling 239	70.75	-56.89	Y	45	1.14
2	162851	2012-12-21 04:12:19	DES east_commish hex east_commish_69-57 tiling 232	71.11	-56.84	Y	45	1.15
3	163159	2012-12-22 02:12:17	DES east_commish hex east_commish_72-57 tiling 234	72.49	-56.58	Y	45	1.12
4	163162	2012-12-22 03:12:29	DES east_commish hex east_commish_72-57 tiling 231	71.30	-56.54	Y	45	1.12
5	163168	2012-12-22 03:12:10	DES east_commish hex east_commish_72-57 tiling 234	72.49	-56.58	Y	45	1.12
6	163178	2012-12-22 04:12:56	DES east_commish hex east_commish_72-57 tiling 233	72.95	-56.48	Y	45	1.12
7	163186	2012-12-22 04:12:37	DES east_commish hex east_commish_69-57 tiling 235	70.26	-56.48	Y	45	1.15
8	163202	2012-12-22 05:12:12	DES east_commish hex east_commish_69-57 tiling 233	69.65	-56.13	Y	45	1.18
9	163211	2012-12-22 05:12:25	DES east_commish hex east_commish_71-55 tiling 238	70.86	-55.96	Y	45	1.19
10	164392	2012-12-29 06:12:18	DES east_commish hex east_commish_71-55 tiling 236	72.21	-55.67	Y	45	1.32
11	164394	2012-12-29 06:12:40	DES east_commish hex east_commish_74-56 tiling 230	74.27	-55.60	Y	45	1.31
12	164785	2012-12-30 06:12:11	DES east_commish hex east_commish_71-55 tiling 230	70.97	-55.29	Y	45	1.37
13	164789	2012-12-30 06:12:53	DES east_commish hex east_commish_74-56 tiling 239	72.57	-55.23	Y	45	1.37
14	164791	2012-12-30 06:12:04	DES east_commish hex east_commish_71-55 tiling 232	72.83	-55.20	Y	45	1.37
15	170598	2013-01-20 02:01:37	DES east_commish hex east_commish_74-56 tiling 237	72.25	-55.59	Y	45	1.12
16	170605	2013-01-20 02:01:47	DES east_commish hex east_commish_74-56 tiling 231	73.35	-54.88	Y	45	1.12
17	170608	2013-01-20 02:01:03	DES east_commish hex east_commish_71-55 tiling 235	72.26	-54.85	Y	45	1.12
18	170615	2013-01-20 02:01:01	DES east_commish hex east_commish_71-55 tiling 234	71.24	-54.60	Y	45	1.14
19	170624	2013-01-20 03:01:10	DES east_commish hex east_commish_71-55 tiling 233	71.67	-54.50	Y	45	1.15
20	170630	2013-01-20 03:01:49	DES east_commish hex east_commish_73-54 tiling 238	72.84	-54.35	Y	45	1.16
Filter: g (17 Items)								
21	162243	2012-12-18 04:12:36	DES east_commish hex east_commish_72-57 tiling 239	70.75	-56.89	g	90	1.14

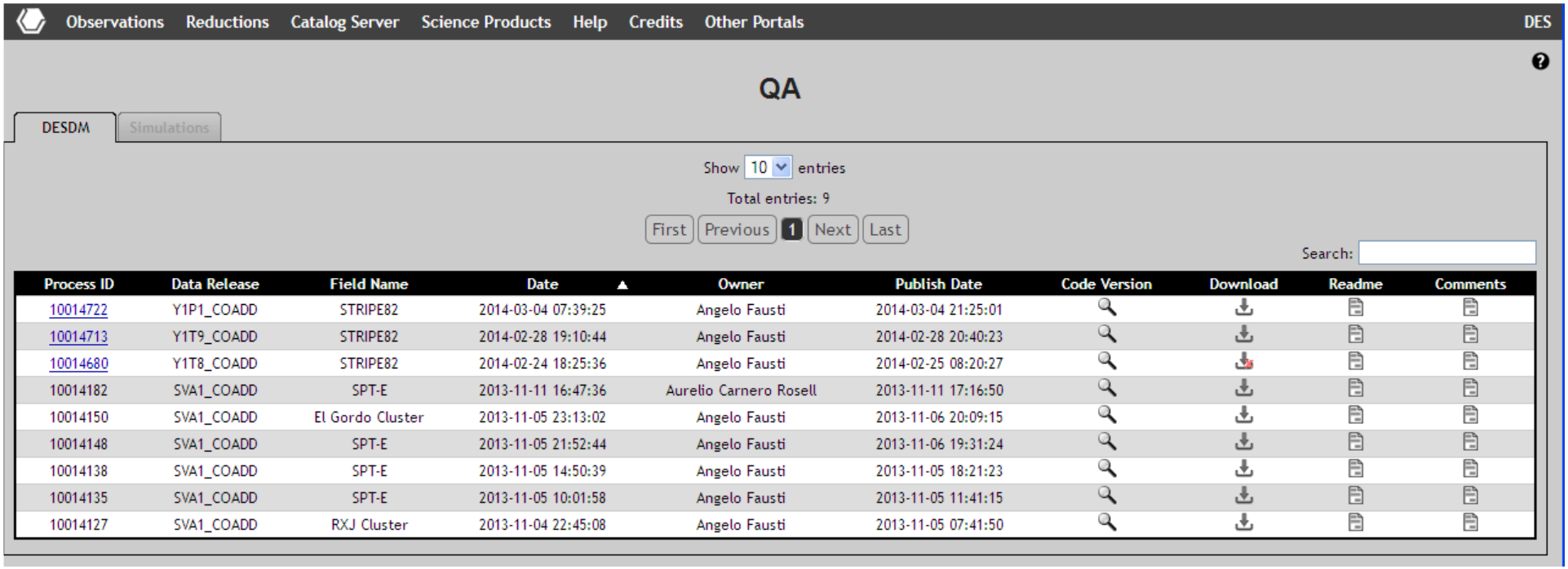
Page 1 of 1 Displaying 1 - 91 of 91


Tile Viewer
Release: v0.5 (SVA1_COADD)
Field: RXJ Cluster
Tiles: 14
Tile Mosaic
Footprint
List
Blacklist
Tile Detail
Tile DES2247-4414
Processes
Objects
Exposures
Comments
Mosaic
List
Blacklist
Object 2924530881
Object 2924534152
Object 2924526821
Object 2924528473
Object 2924521993
Object 2924519554
Object 2924526034
Object 2924525669
Object 2924530490
Object 2924527163
Object 2924526587
Object 2924545375
Object 2924546763
Object 2924557238
Object 2924562252
Object 2924570027
Object 2924568944
Object 2924539618
Object 2924539122
Object 2924545005
Object 2924541382
Object 2924540205
Object 2924537621
Object 2924538471
Object 2924535358
Object 2924539801
Object 2924540860


Tile Viewer
Release: v0.5 (SVA1_COADD)
Field: RXJ Cluster
Tiles: 14
Tile Mosaic
Footprint
Tile DES2247-4414
Mosaic
List
Object Detail
Object 2924526034
Comments
Download
Explore
NVO Data Scope
Selected Object
Mosaic
Release v0.5 (SVA1_COADD)
Field Name RXJ Cluster
Tile Name DES2247-4414
Object ID 2924526034
RA (deg) 341.686453
Dec (deg) -44.511089
l (deg) -10.19
b (deg) -59.62
Type ---
Photo-Z ---
g 24.13
r 23.51
i 22.91
z 23.23
Y 22.42
Process ID 10014127
g
r
i
z
Y
gri
riz
izY
Mask
Flux
Object 2924530881
Object 2924527163
Object 2924539122
t 2924530490
t 2924539618
t 2924540860

Reductions > QA product logs





Code Version from process 10014722

Workflow Description	Version	Date
data_installation	V00_06_00	2014-02-28 09:00:05

Component Name	Version	Date
download_request	V00_06_02	2014-02-28 21:21:47
install_images	V00_06_00	2014-02-25 09:04:15
check_install_images	V00_06_00	2014-02-25 09:17:24
install_catalogs	V00_06_00	2014-02-25 11:40:16
create_pype_input	Git HEAD	2014-02-25 21:23:08
tileorganizer	V00_16_02	2014-02-26 13:30:42
dataretriever	V00_16_02	2014-02-26 13:30:42
coadd_properties	V01_05_05	2014-02-25 21:35:18
coadd_at	V00_03_03	2014-02-21 16:42:06
sci_req	V00_07_01	2014-02-25 22:13:54
qa_coadd_consolidator	V01_03_00	2014-02-28 14:53:08

Close

Comments from process 10014722

Basilio Santiago comments on 2014-03-06 13:04:48:

[Tile DES2114-0124] Properties --> Outliers (tile level): Caption to colour histograms should change from

Color histogram. Blue line are point sources and red outliers.

to

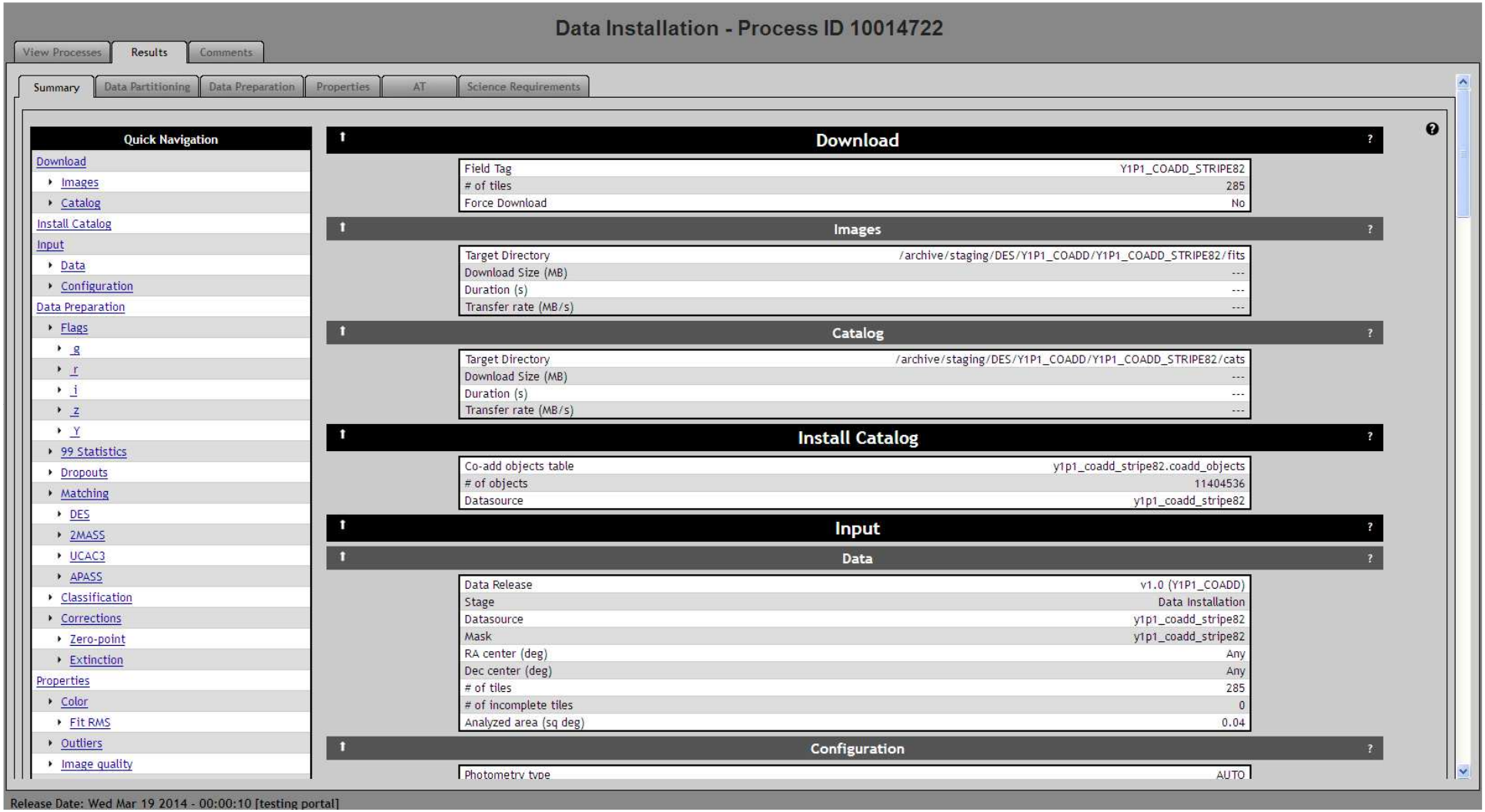
Color histogram. Blue line are objects within stellar locus, whereas the red line are the outliers.

Basilio Santiago comments on 2014-03-06 13:02:31:

[Tile DES2114-0124] I just realized that the comments I am writing in here are being sent by email. No problems, except for the fact that the msg says that this is a Data Installation process . But what I am looking at is what I thought was the QA Coadd. After all, I navigated like this

(Data Server --> Data Reductions --> Co-adds --> QA.

Is this a bug in the automatic messaging system? Or am I requiring a full update on how the E2E is organized? Perhaps a bit of both?


Data Installation - Process ID 10014722
View Processes
Results
Comments
Summary
Data Partitioning
Data Preparation
Properties
AT
Science Requirements
Quick Navigation
Download
Images
Catalog
Install Catalog
Input
Data
Configuration
Data Preparation
Flags
g
r
i
z
Y
99 Statistics
Dropouts
Matching
DES
2MASS
UCAC3
APASS
Classification
Corrections
Zero-point
Extinction
Properties
Color
Fit RMS
Outliers
Image quality
Download
Field Tag Y1P1_COADD_STRIPE82
# of tiles 285
Force Download No
Images
Target Directory /archive/staging/DES/Y1P1_COADD/Y1P1_COADD_STRIPE82/fits
Download Size (MB) ---
Duration (s) ---
Transfer rate (MB/s) ---
Catalog
Target Directory /archive/staging/DES/Y1P1_COADD/Y1P1_COADD_STRIPE82/cats
Download Size (MB) ---
Duration (s) ---
Transfer rate (MB/s) ---
Install Catalog
Co-add objects table y1p1_coadd_stripe82.coadd_objects
# of objects 11404536
Datasource y1p1_coadd_stripe82
Input
Data
Data Release v1.0 (Y1P1_COADD)
Stage Data Installation
Datasource y1p1_coadd_stripe82
Mask y1p1_coadd_stripe82
RA center (deg) Any
Dec center (deg) Any
# of tiles 285
# of incomplete tiles 0
Analyzed area (sq deg) 0.04
Configuration
Photometry type AUTO
Release Date: Wed Mar 19 2014 - 00:00:10 [testing portal]

Data Installation - Process ID 10014713

View Processes | **Results** | Comments

Summary | Data Partitioning | Data Preparation | Properties | **AT** | Science Requirements

Internal Tests | **External Tests**

Quick Navigation

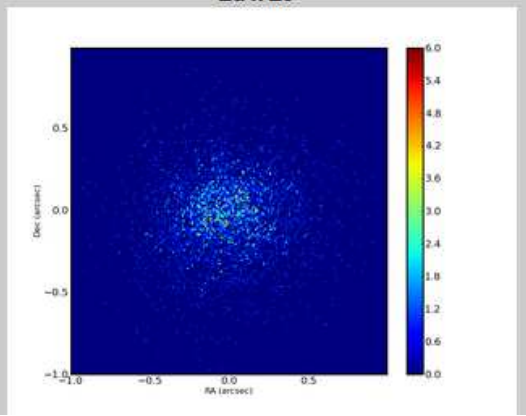
- Astrometry
  - 2MASS
  - UCAC3
  - STRIPE82
- Photometry
  - APASS
    - Stars
- Completeness
- Classification
- Image Quality

Astrometry

2MASS

# of uniquely matched objects	RA residual (mas)			Dec residual (mas)		
	Mean	Median	RMS	Mean	Median	RMS
4035 (47.06%)	15.41	15.41	90.211	-22.27	-22.27	35.342

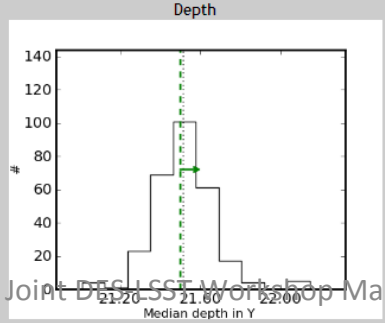
Δα x Δδ



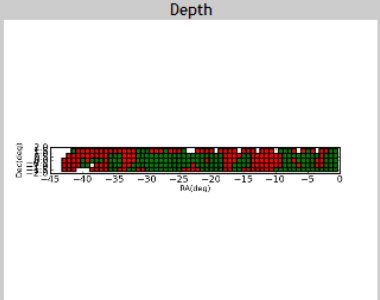
Science requirement

Y

Depth



Depth



Data Installation - Process ID 10014713

View Processes | **Results** | Comments

Summary | Data Partitioning | Data Preparation | Properties | AT | **Science Requirements**

Quick Navigation

- Photometry
  - R-4
    - g
    - r
    - i
    - z
    - Y
  - R-6
  - R-10
- Astrometry
  - R-14
    - RMS wrt UCAC3
  - R-15
    - g
    - r
    - z
    - Y
- Image Quality
  - R-17
  - R-18
    - r
    - i
    - z
  - R-19
  - R-20
  - R-21

Photometry

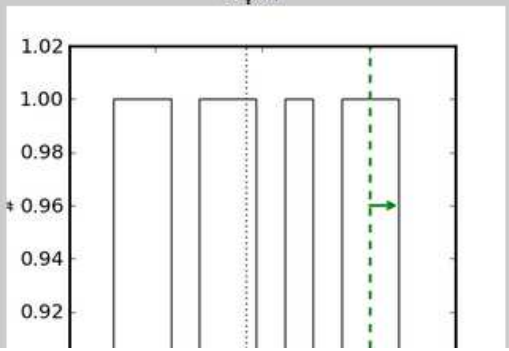
R-4

R-4: The DES wide-area survey will be carried out in 5 optical passbands grizY and reach g = 24.6, r = 24.1, i = 24.3, z = 23.8, and Y=21.5 AB at > 10σ S/N in 1.5" apertures (apertures of this size are appropriate for faint galaxies in 0.9" seeing), with < 100 mas accuracy positions, over at least 90% of the survey area. Inside this area there should be > 97.5% completeness (excluding area occulted by stars) and 95% purity.

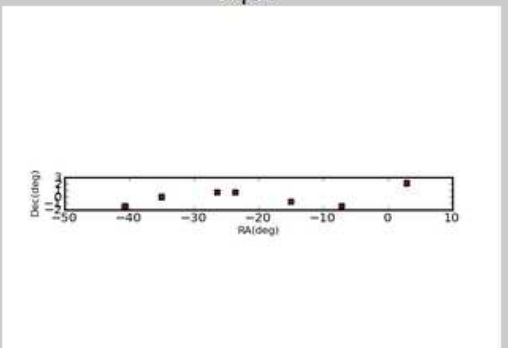
Filter	Depth Mean	Depth Median	RMS
g	24.49	24.49	0.09
r	23.99	23.97	0.12
i	23.27	23.33	0.25
z	22.83	22.85	0.14
Y	21.50	21.49	0.10

g

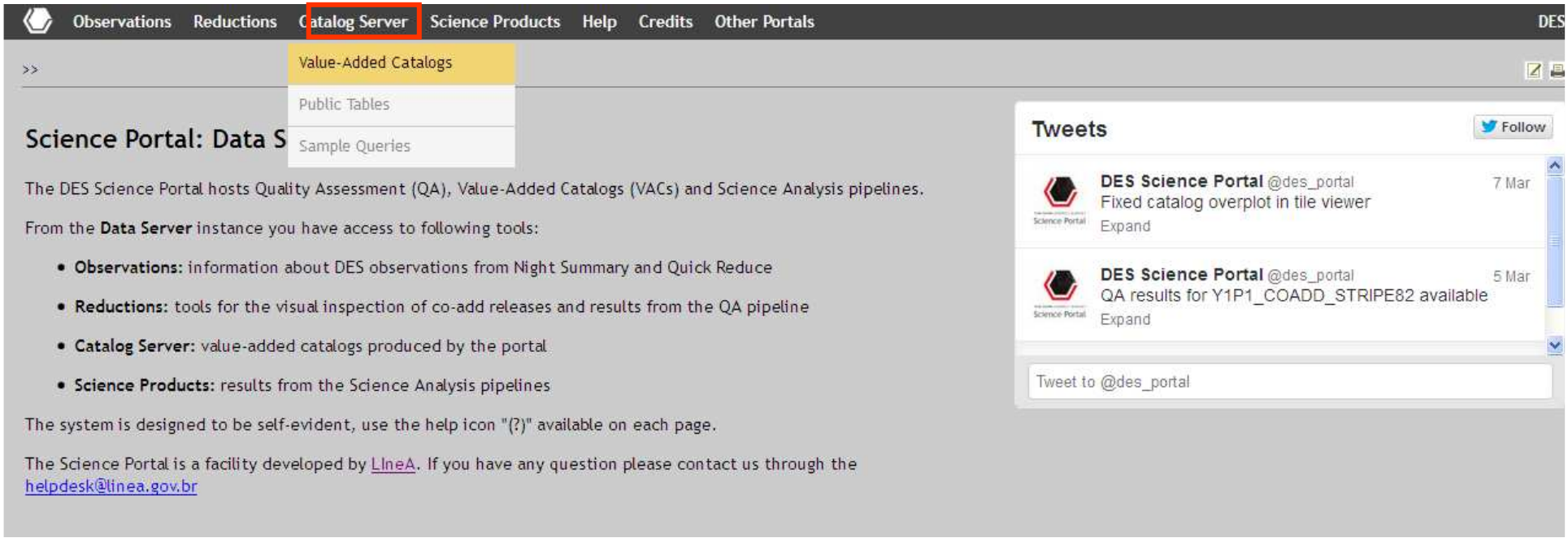
Depth

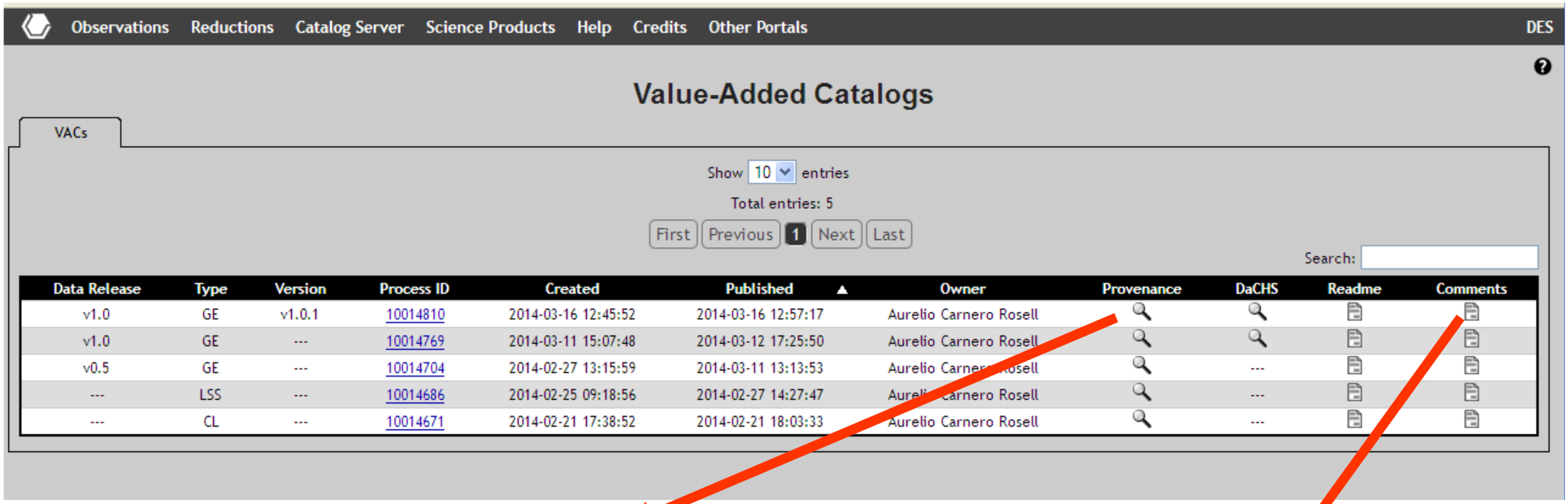


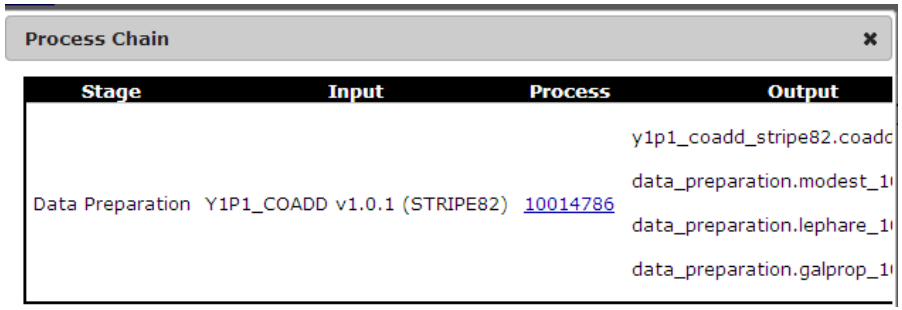
Depth

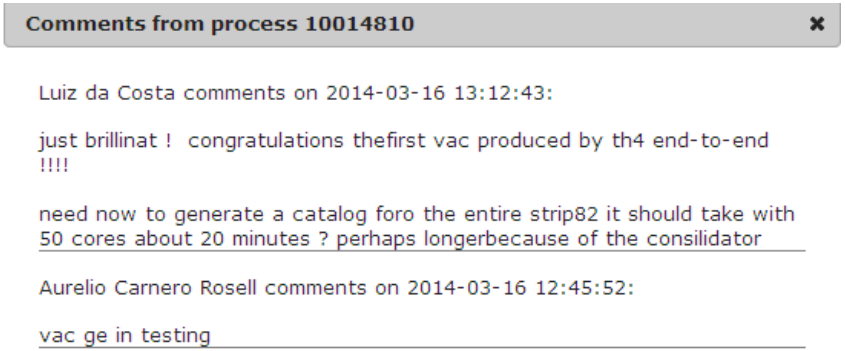


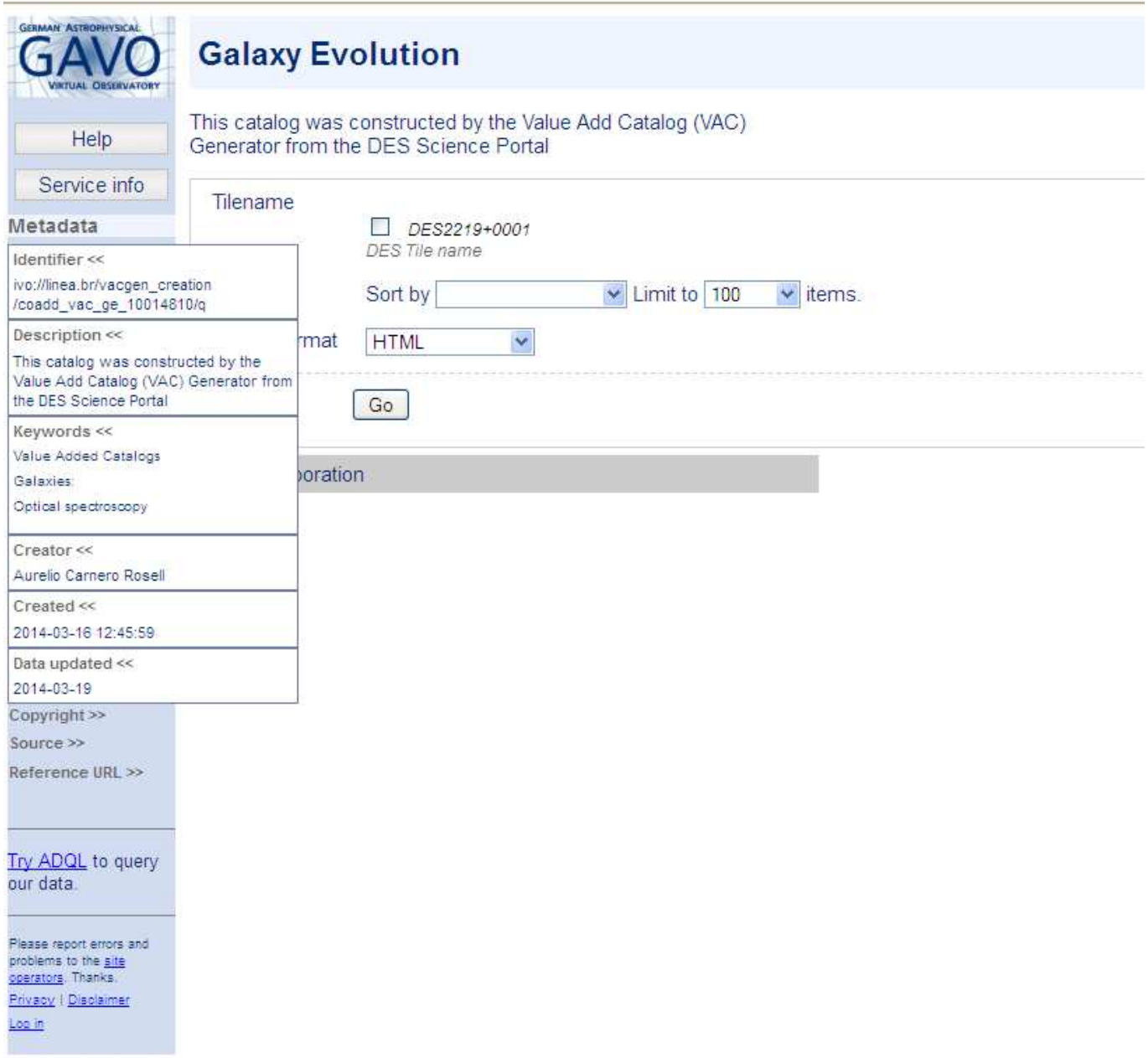
Catalog Server

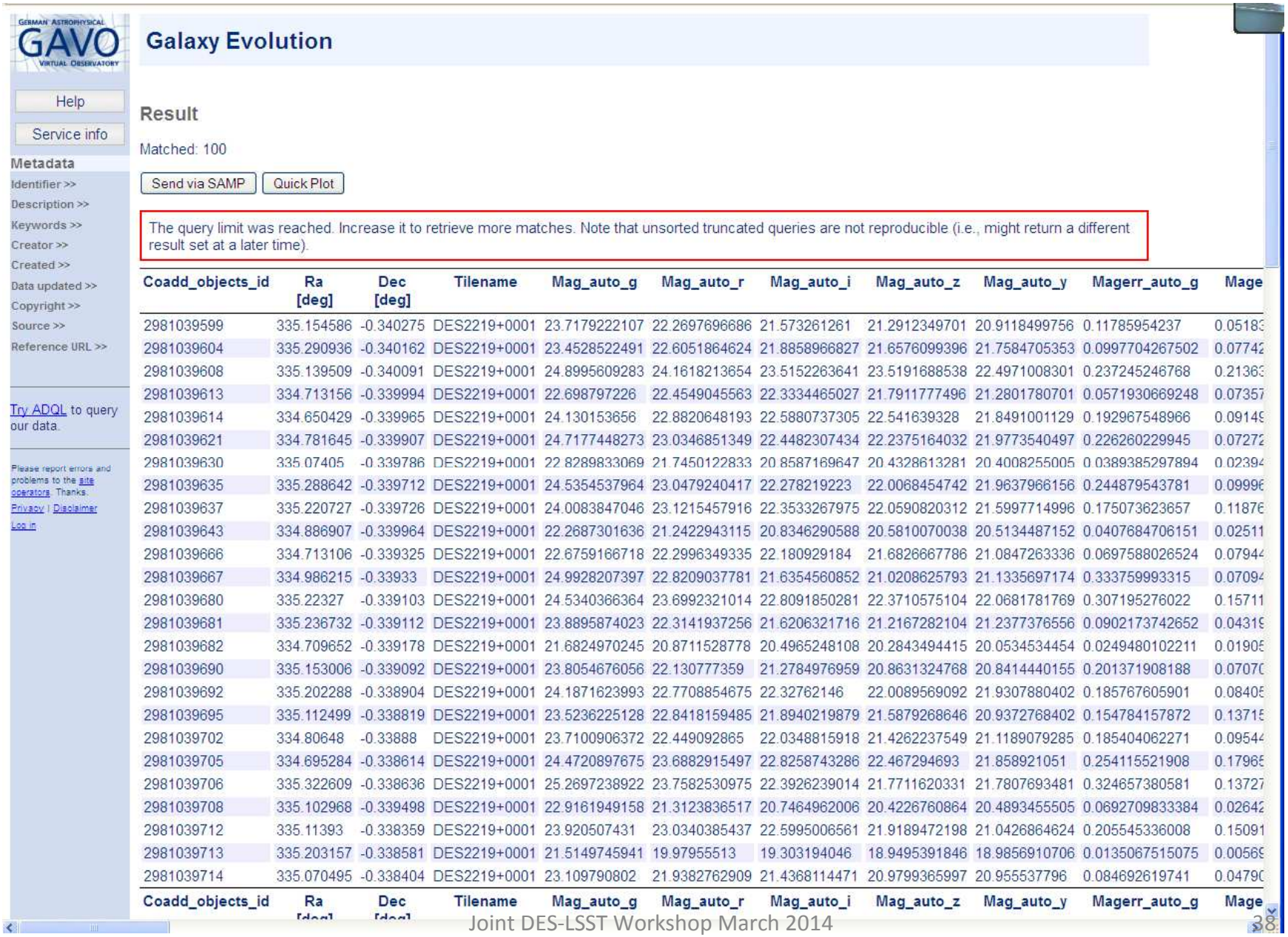



Observations
Reductions
Catalog Server
Science Products
Help
Credits
Other Portals
DES
Value-Added Catalogs
VACs
Show 10 entries
Total entries: 5
First
Previous
1
Next
Last
Search:
Data Release
Type
Version
Process ID
Created
Published
Owner
Provenance
DaCHS
Readme
Comments
v1.0 GE v1.0.1 10014810 2014-03-16 12:45:52 2014-03-16 12:57:17 Aurelio Carnero Rosell
v1.0 GE --- 10014769 2014-03-11 15:07:48 2014-03-12 17:25:50 Aurelio Carnero Rosell
v0.5 GE --- 10014704 2014-02-27 13:15:59 2014-03-11 13:13:53
--- LSS --- 10014686 2014-02-25 09:18:56 2014-02-27 14:27:47
--- CL --- 10014671 2014-02-21 17:38:52 2014-02-21 18:03:33 Aurelio Carnero Rosell


Process Chain
Stage
Input
Process
Output
Data Preparation
Y1P1_COADD v1.0.1 (STRIPE82)
10014786
y1p1_coadd_stripe82.coadc
data_preparation.modest_1
data_preparation.lephare_1
data_preparation.galprop_1


Comments from process 10014810
Luiz da Costa comments on 2014-03-16 13:12:43:
just brillinat ! congratulations thefirst vac produced by th4 end-to-end !!!!
need now to generate a catalog foro the entire strip82 it should take with 50 cores about 20 minutes ? perhaps longerbecause of the consilidator
Aurelio Carnero Rosell comments on 2014-03-16 12:45:52:
vac ge in testing


GERMAN ASTROPHYSICAL
GAVO
VIRTUAL OBSERVATORY
Help
Service info
Metadata
Identifier <<
ivo://linea.br/vacgen_creation
/coadd_vac_ge_10014810/q
Description <<
This catalog was constructed by the Value Add Catalog (VAC) Generator from the DES Science Portal
Keywords <<
Value Added Catalogs
Galaxies
Optical spectroscopy
Creator <<
Aurelio Carnero Rosell
Created <<
2014-03-16 12:45:59
Data updated <<
2014-03-19
Copyright >>
Source >>
Reference URL >>
Try ADQL to query our data.
Please report errors and problems to the site operators. Thanks.
Privacy | Disclaimer
Log in
Galaxy Evolution
This catalog was constructed by the Value Add Catalog (VAC)
Generator from the DES Science Portal
Tilename
DES2219+0001
DES Tile name
Sort by
Limit to 100 items.
rmat
HTML
Go
oration



GAVO
German Astrophysical Virtual Observatory

Help
Service info

Metadata
Identifier >>
Description >>
Keywords >>
Creator >>
Created >>
Data updated >>
Copyright >>
Source >>
Reference URL >>

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Privacy | Disclaimer
Log in

Galaxy Evolution

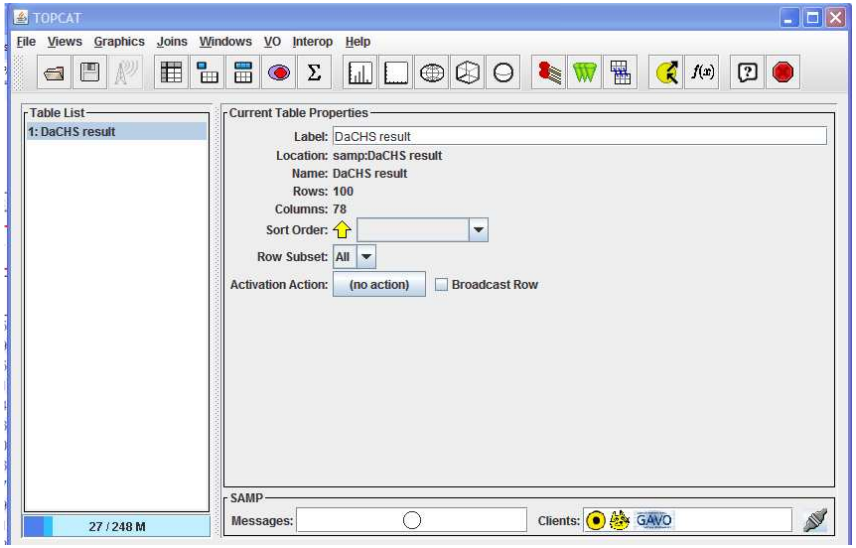
Result

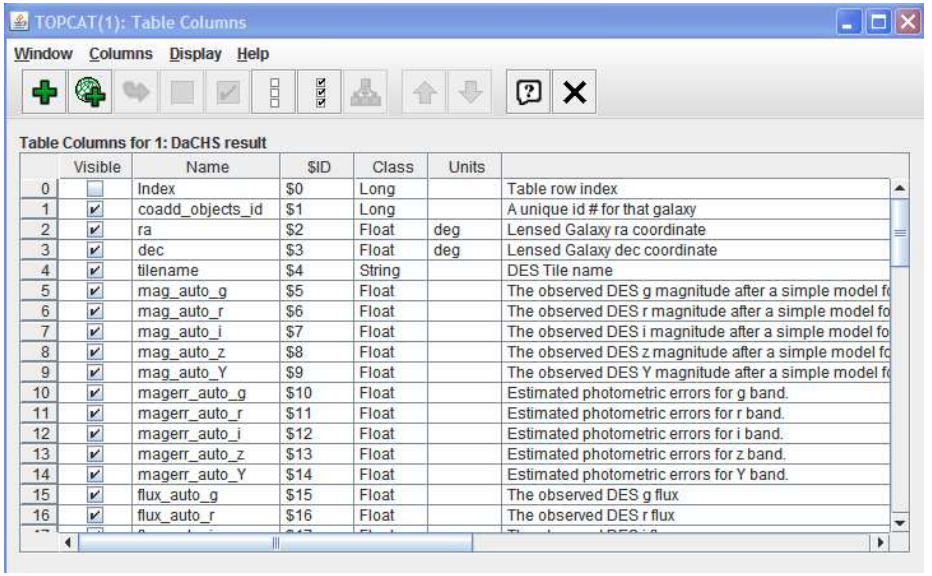
Matched: 100

Send via SAMP | Quick Plot

The query limit was reached. Increase it to retrieve more matches. Note that unsorted truncated queries are not reproducible (i.e., might return a different result set at a later time).

Coadd_objects_id	Ra [deg]	Dec [deg]	Tilename	Mag_auto_g	Mag_auto_r	Mag_auto_i	Mag_auto_z	Mag_auto_y	Magerr_auto_g	Mage
2981039599	335.154586	-0.340275	DES2219+0001	23.7179222107	22.2697696686	21.573261261	21.2912349701	20.9118499756	0.11785954237	0.0518
2981039604	335.290936	-0.340162	DES2219+0001	23.4528522491	22.6051864624	21.8858966827	21.6576099396	21.7584705353	0.0997704267502	0.0774
2981039608	335.139509	-0.340091	DES2219+0001	24.8995609283	24.1618213654	23.5152263641	23.5191688538	22.4971008301	0.237245246768	0.2136
2981039613	334.713156	-0.339994	DES2219+0001	22.698797226	22.4549045563	22.3334465027	21.7911777496	21.2801780701	0.0571930669248	0.0735
2981039614	334.650429	-0.339965	DES2219+0001	24.130153656	22.8820648193	22.5880737305	22.541639328	21.8491001129	0.192967548966	0.0914
2981039621	334.781645	-0.339907	DES2219+0001	24.7177448273	23.0346851349	22.4482307434	22.2375164032	21.9773540497	0.226260229945	0.0727
2981039630	335.07405	-0.339786	DES2219+0001	22.8289833069	21.7450122833	20.8587169647	20.4328613281	20.4008255005	0.0389385297894	0.0239
2981039635	335.288642	-0.339712	DES2219+0001	24.5354537964	23.0479240417	22.278219223	22.0068454742	21.9637966156	0.244879543781	0.0999
2981039637	335.220727	-0.339726	DES2219+0001	24.0083847046	23.1215457916	22.3533267975	22.0590820312	21.5997714996	0.175073623657	0.1187
2981039643	334.886907	-0.339964	DES2219+0001	22.2687301636	21.2422943115	20.8346290588	20.5810070038	20.5134487152	0.0407684706151	0.0251
2981039666	334.713106	-0.339325	DES2219+0001	22.6759166718	22.2996349335	22.180929184	21.6826667786	21.0847263336	0.0697588026524	0.0794
2981039667	334.986215	-0.33933	DES2219+0001	24.9928207397	22.8209037781	21.6354560852	21.0208625793	21.1335697174	0.333759993315	0.0709
2981039680	335.22327	-0.339103	DES2219+0001	24.5340366364	23.6992321014	22.8091850281	22.3710575104	22.0681781769	0.307195276022	0.1571
2981039681	335.236732	-0.339112	DES2219+0001	23.8895874023	22.3141937256	21.6206321716	21.2167282104	21.2377376556	0.0902173742652	0.0431
2981039682	334.709652	-0.339178	DES2219+0001	21.6824970245	20.8711528778	20.4965248108	20.2843494415	20.0534534454	0.0249480102211	0.0190
2981039690	335.153006	-0.339092	DES2219+0001	23.8054676056	22.130777359	21.2784976959	20.8631324768	20.8414440155	0.201371908188	0.0707
2981039692	335.202288	-0.338904	DES2219+0001	24.1871623993	22.7708854675	22.32762146	22.0089569092	21.9307880402	0.185767605901	0.0840
2981039695	335.112499	-0.338819	DES2219+0001	23.5236225128	22.8418159485	21.8940219879	21.5879268646	20.9372768402	0.154784157872	0.1371
2981039702	334.80648	-0.33888	DES2219+0001	23.7100906372	22.449092865	22.0348815918	21.4262237549	21.1189079285	0.185404062271	0.0954
2981039705	334.695284	-0.338614	DES2219+0001	24.4720897675	23.6882915497	22.8258743286	22.467294693	21.858921051	0.254115521908	0.1796
2981039706	335.322609	-0.338636	DES2219+0001	25.2697238922	23.7582530975	22.3926239014	21.7711620331	21.7807693481	0.324657380581	0.1372
2981039708	335.102968	-0.339498	DES2219+0001	22.9161949158	21.3123836517	20.7464962006	20.4226760864	20.4893455505	0.0692709833384	0.0264
2981039712	335.11393	-0.338359	DES2219+0001	23.920507431	23.0340385437	22.5995006561	21.9189472198	21.0426864624	0.205545336008	0.1509
2981039713	335.203157	-0.338581	DES2219+0001	21.5149745941	19.97955513	19.303194046	18.9495391846	18.9856910706	0.0135067515075	0.0056
2981039714	335.070495	-0.338404	DES2219+0001	23.109790802	21.9382762909	21.4368114471	20.9799365997	20.955537796	0.084692619741	0.0479
Coadd_objects_id	Ra [deg]	Dec [deg]	Tilename	Mag_auto_g	Mag_auto_r	Mag_auto_i	Mag_auto_z	Mag_auto_y	Magerr_auto_g	Mage





	Visible	Name	$ID	Class	Units	
0	☐	Index	$0	Long		Table row index
1	☑	coadd_objects_id	$1	Long		A unique id # for that galaxy
2	☑	ra	$2	Float	deg	Lensed Galaxy ra coordinate
3	☑	dec	$3	Float	deg	Lensed Galaxy dec coordinate
4	☑	tilename	$4	String		DES Tile name
5	☑	mag_auto_g	$5	Float		The observed DES g magnitude after a simple model fo
6	☑	mag_auto_r	$6	Float		The observed DES r magnitude after a simple model fo
7	☑	mag_auto_i	$7	Float		The observed DES i magnitude after a simple model fo
8	☑	mag_auto_z	$8	Float		The observed DES z magnitude after a simple model fo
9	☑	mag_auto_Y	$9	Float		The observed DES Y magnitude after a simple model fo
10	☑	magerr_auto_g	$10	Float		Estimated photometric errors for g band.
11	☑	magerr_auto_r	$11	Float		Estimated photometric errors for r band.
12	☑	magerr_auto_i	$12	Float		Estimated photometric errors for i band.
13	☑	magerr_auto_z	$13	Float		Estimated photometric errors for z band.
14	☑	magerr_auto_Y	$14	Float		Estimated photometric errors for Y band.
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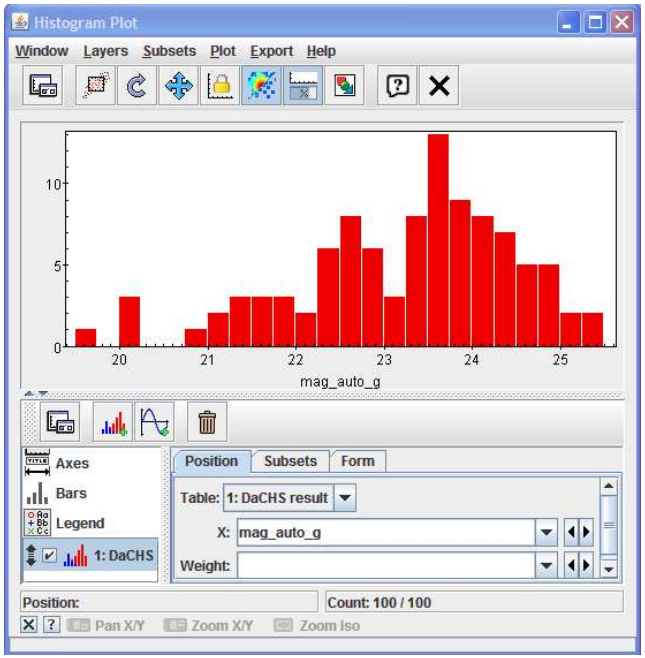
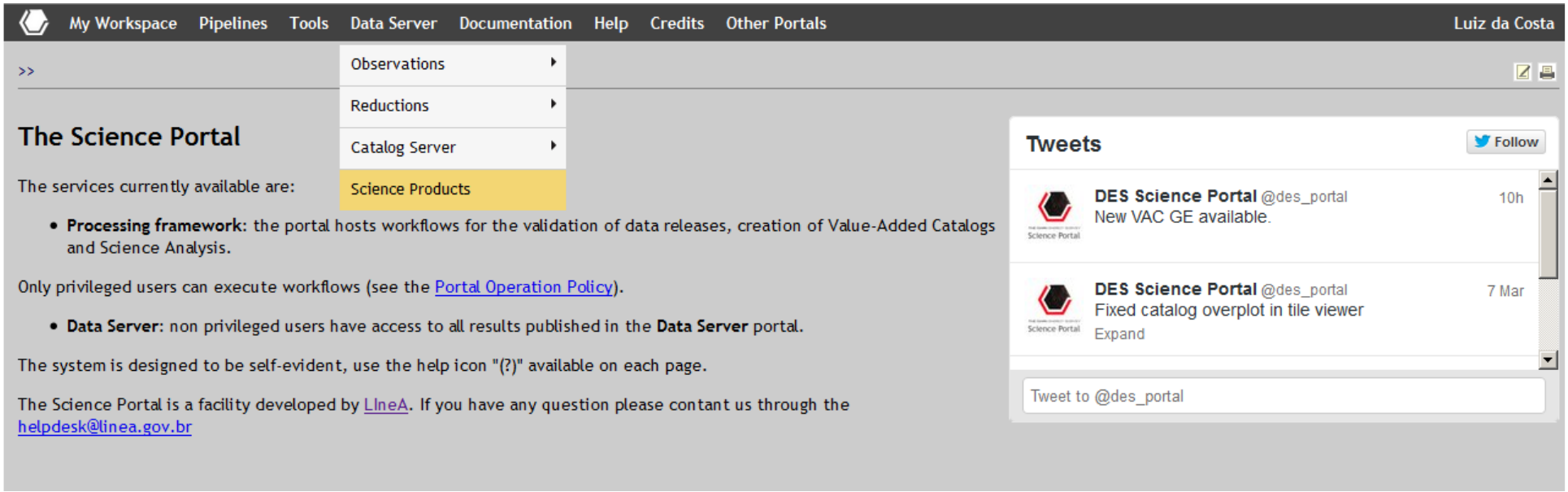
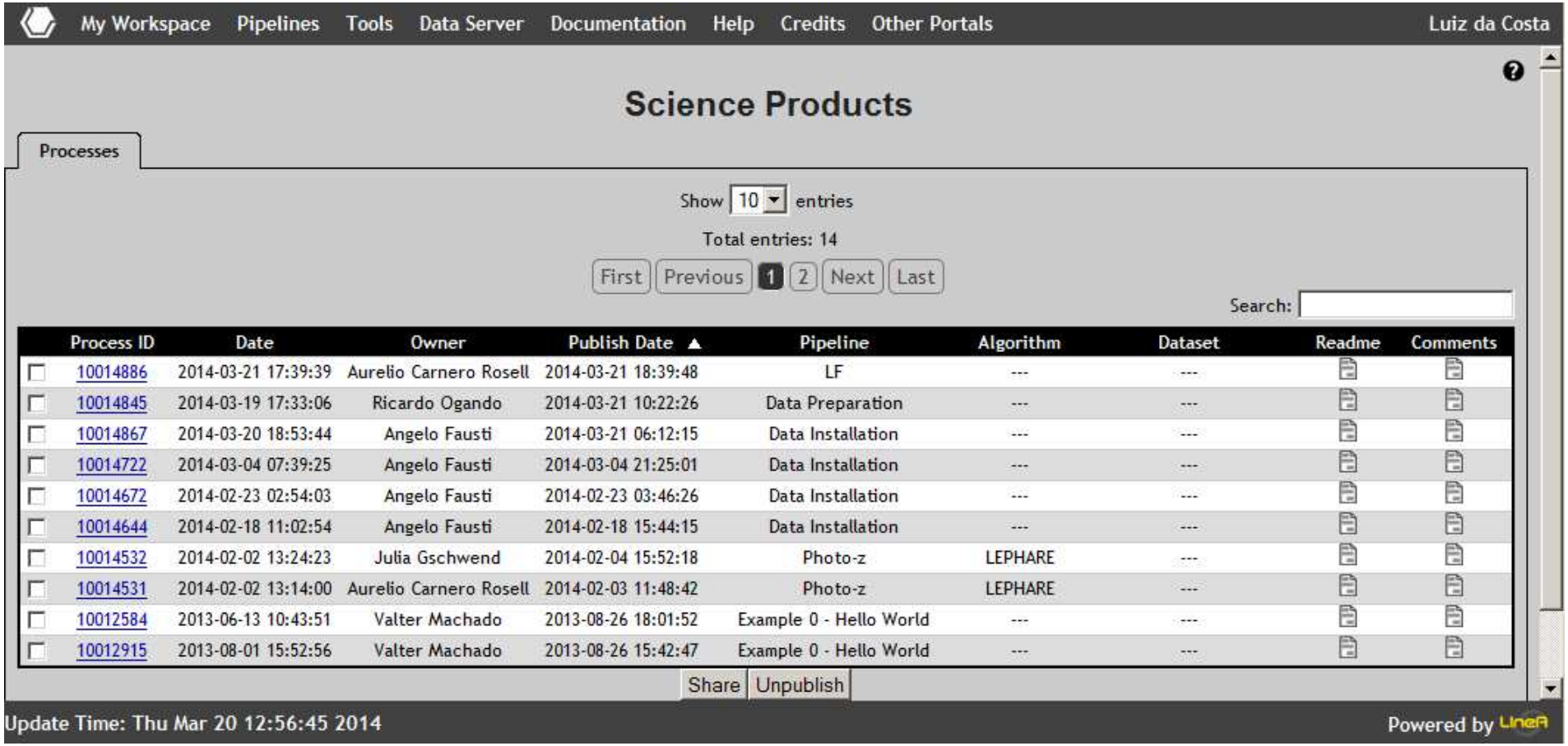
16	☑	flux_auto_r	$16	Float		The observed DES r flux



Science Products



Science Product



Work in progress

- Data server being installed at Fermilab
- Addressing database problems
- Interface issues with NCSA (training set, corrections, mask)
- Producing catalogs & AT according to WG requirements

Summary

1. From data release to Vacs with minimum human intervention
2. Catalogs available for Y1P1 (Stripe82, SPTW)
3. Provenance (data, configuration, codes)
4. Work still ongoing
   - new facilities continue to be implemented
   - Review of design and contents of product logs
5. Portal should be ready for Y1A1

Extra slides