

SDSS-III Data Access

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Key people for DR8

1. Science Archive Server team:

Ben Weaver, Demitri Muna, Adrian Price-Whelan (NYU), Tom Throwe (BNL), Ricardo Ogando and BPG team (Observatorio Nacional)

2. Catalog Archive Server team

Ani Thakar, V. Paul, N. Buddana, V. Vamsi, A. Szalay, G. Fekete, N. Li, T. Budavari (JHU)

3. SEGUE-2 team

Fergal Mullally, Steve Bickerton, Craig Loomis (Princeton), Connie Rockosi (UCSC), Phoebe Stierhoff (Case), Brian Yanny (Fermilab)

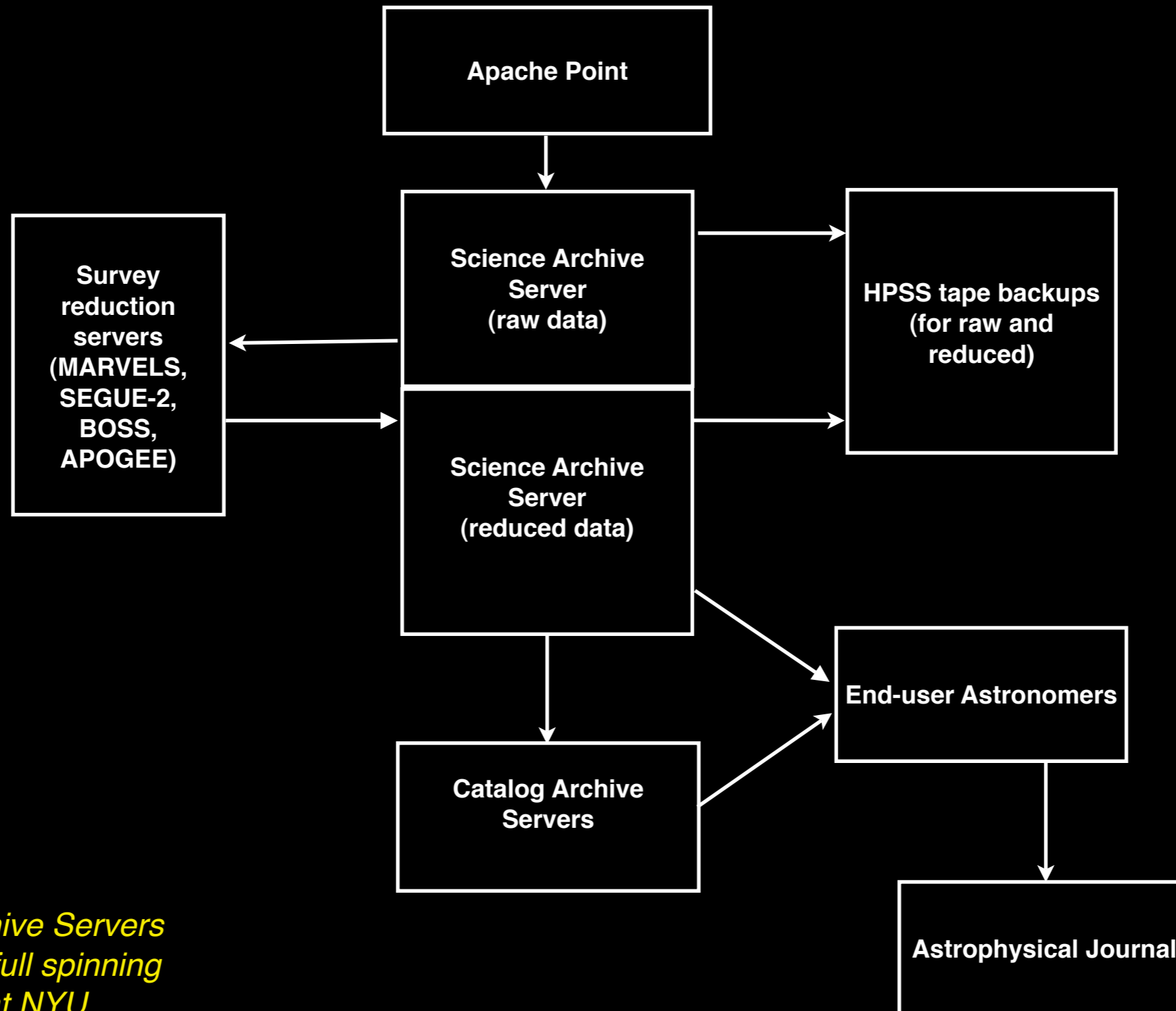
4. BOSS imaging team

David Schlegel, Gary Kushner (LBL), Nikhil Padmanabhan (Yale)

5. Documentation team

Natalia Connolly (Hamilton), Jordan Raddick (JHU), Michael Strauss (Princeton), Bob Nichol (Portsmouth)

Data distribution for SDSS-III



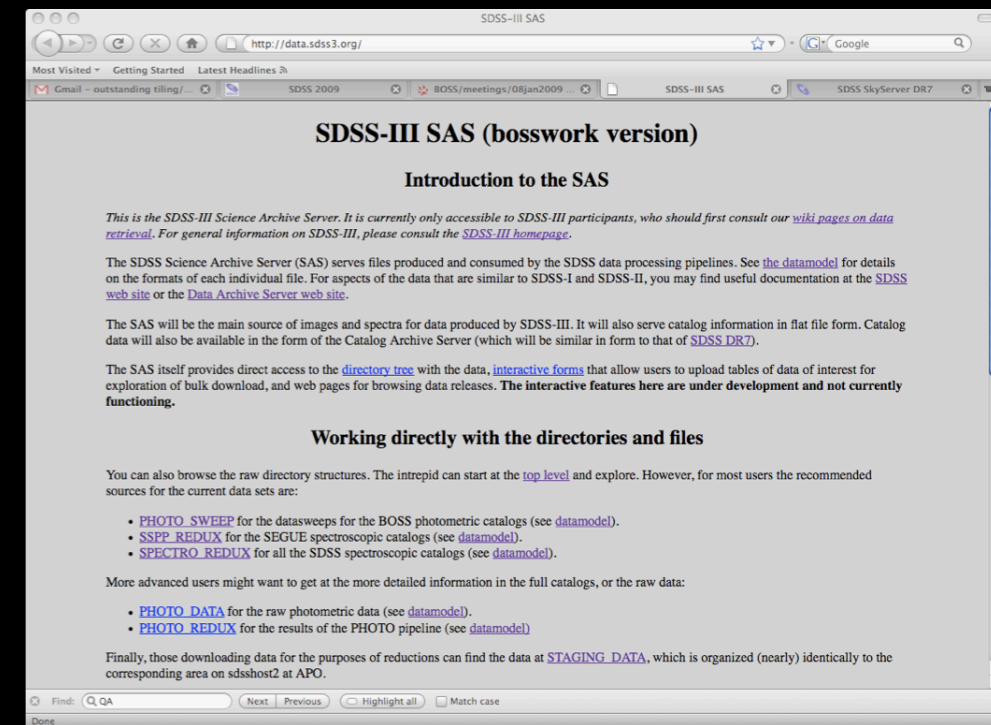
*Science Archive Servers
also have a full spinning
mirror at NYU*



SAS & CAS

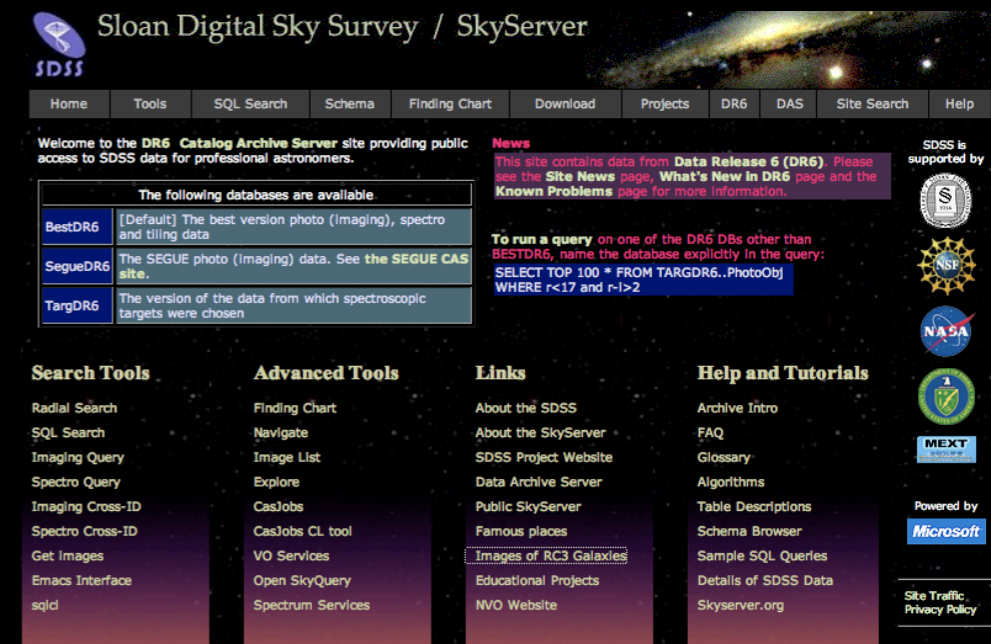
Science Archive Server (currently running)

all data from all surveys
flat files (FITS, FTCL formats)
full dynamic range images
full dynamic range spectra
raw data and complete meta-data
rsync, wget access to full directory trees
[web form access for simple searches]
full data model with detailed descriptions of formats



Catalog Archive Server (hardware installed, testbed version running)

SQL database with catalogs
Form interface for simple queries
CASJobs and MyDB servers for complex queries
SkyServer\browsing of images, cutouts and spectra
Attached to web page with full user documentation





Data processing and data releases in a nutshell

1. Data flow

- a. All data comes off mountain to SAS, backed up to tape and on mirror at NYU
- b. BOSS data processed on SAS by BOSS team at LBL
- c. SEGUE-2 data processed at Princeton, mirrored to SAS for data access
- d. APOGEE data processed at UVa, mirrored to SAS for data access

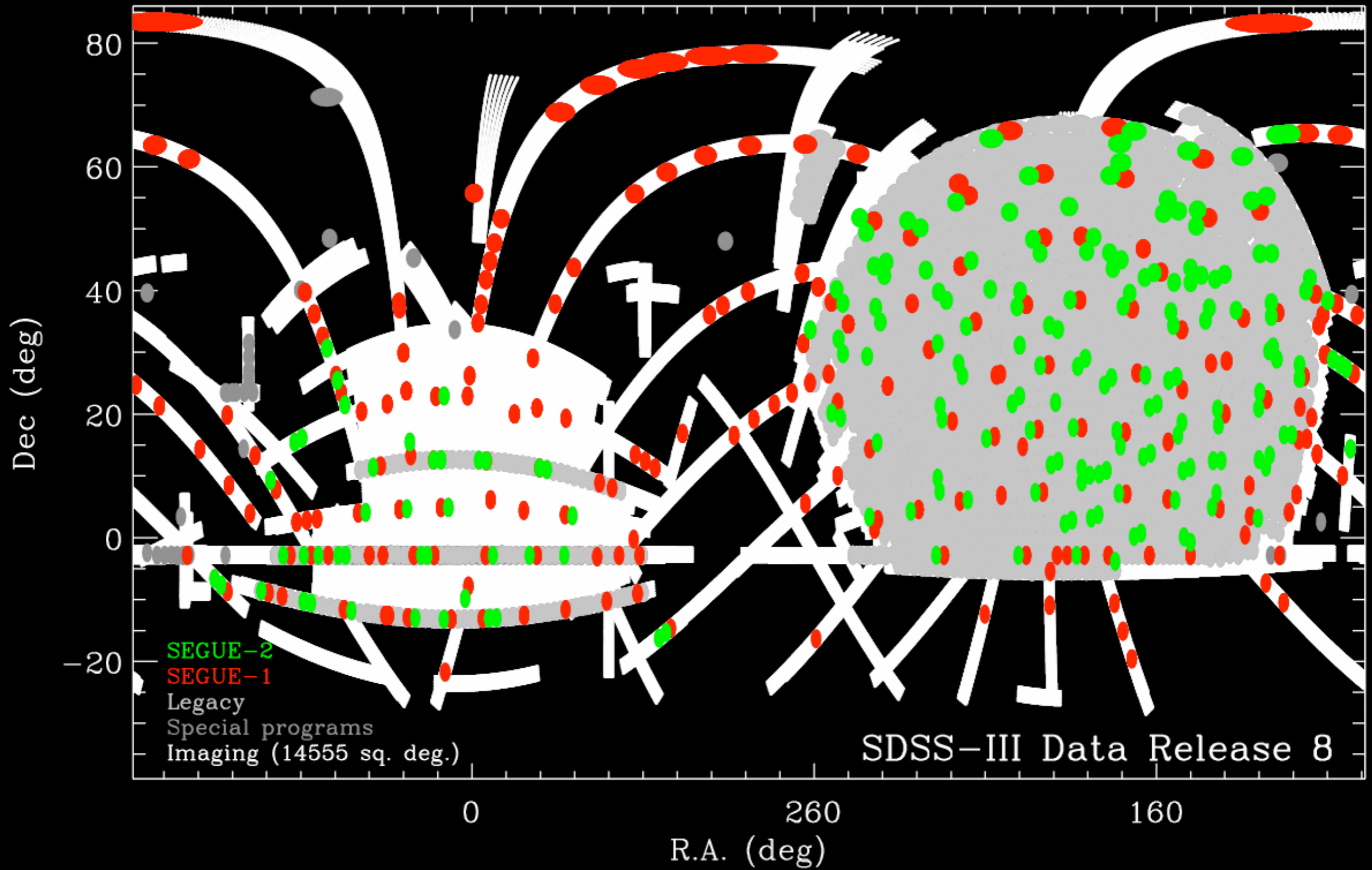
2. Archive structure and contents

- a. Web site and documentation: <http://www.sdss3.org>
- b. Catalog Archive Server (CAS) for catalogs at JHU: <http://skyservice.pha.jhu.edu/casjobs/>
- c. Science Archive Server (SAS) for images and spectra at LBL: <http://data.sdss3.org>

3. Data release schedule

Date	Data Release	APOGEE	BOSS	MARVELS	SEGUE-2
Dec. 2010	DR8		Final imaging		Final spectra
Jul. 2012	DR9		Spectra (up to Jul. 2011)	Radial velocities (up to Jul. 2011)	
Jul. 2013	DR10	Spectra (up to Jul. 2012)	Spectra (up to Jul. 2012)		
Dec. 2014	DR12	Final spectra	Final spectra	Final radial velocities	

DR8 Scope





How is DR8 different from DR7?

1. What is different about the imaging data?

- a. 3000 deg more imaging data in SGC*
- b. Imaging data has all been rerun through latest PHOTO v5_6*
- c. Reductions, calibrations, "resolve" are under photo-op system (differs from SDSS-2)*
- d. Corrected frames now calibrated and sky-subtracted, with correct WCS*
- e. Photometric "datasweeps"*
- f. 2MASS matches added*

2. What is different about the spectroscopy?

- a. A handful (102) old plates not in DR7 now released*
- b. SEGUE-2 took 211 plates, or 135,040 more spectra*
- c. Spectroscopic data also rerun through SSPP*
- d. Galaxy spectroscopy has "Garching" analysis*
- e. Target flag overloading resolved (primgtarget -> legacy_target, special_target, segue1_target)*
- f. Matches between spectra and photometry use flux information*

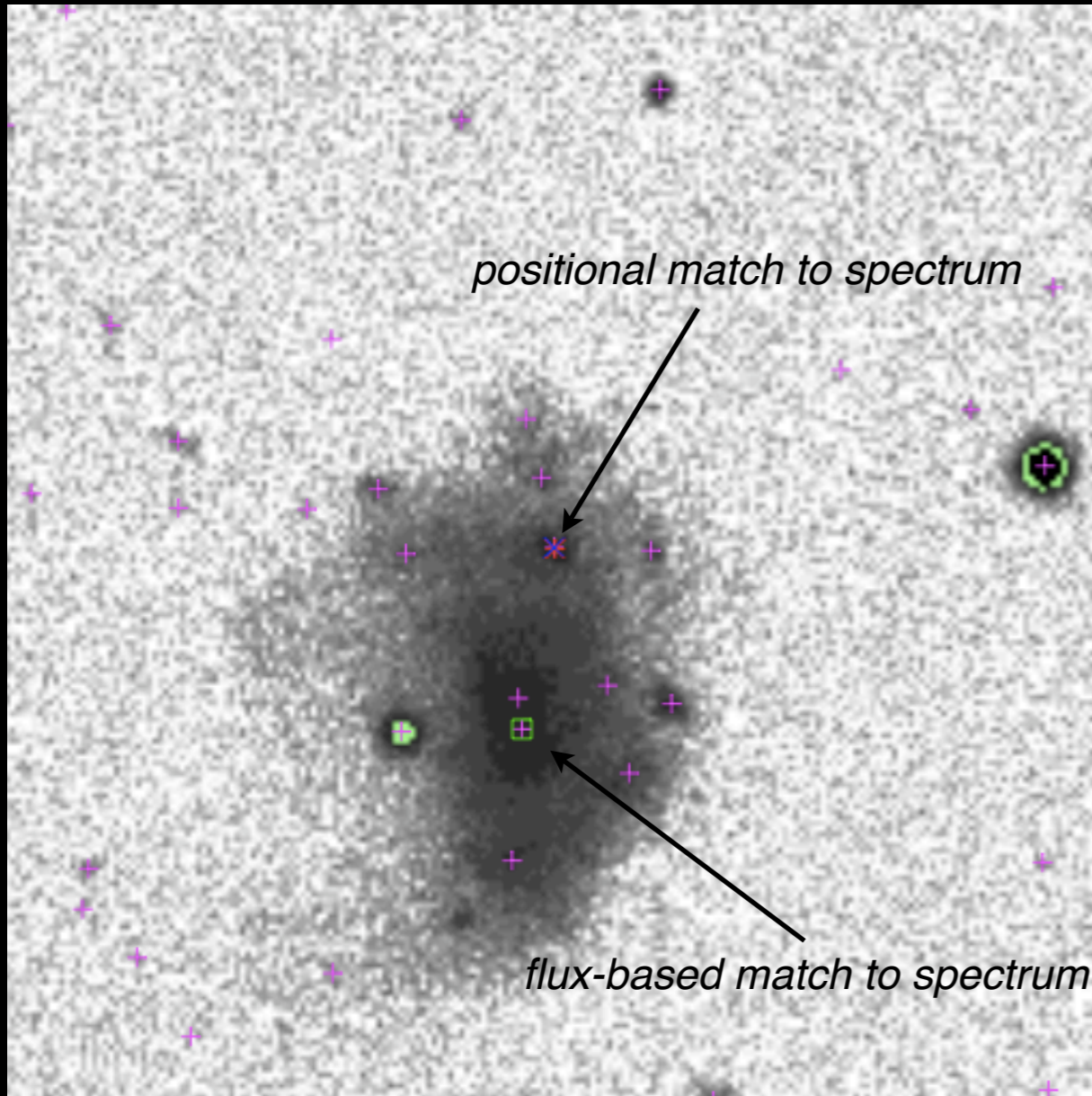
3. What is different about the CAS?

- a. Not much to user, we are trying to keep units, naming conventions the same*
- b. Adding geometrical information regarding the photometric window*
- c. Pulling some calculations out (e.g. matching) to ensure SAS/CAS are identical*

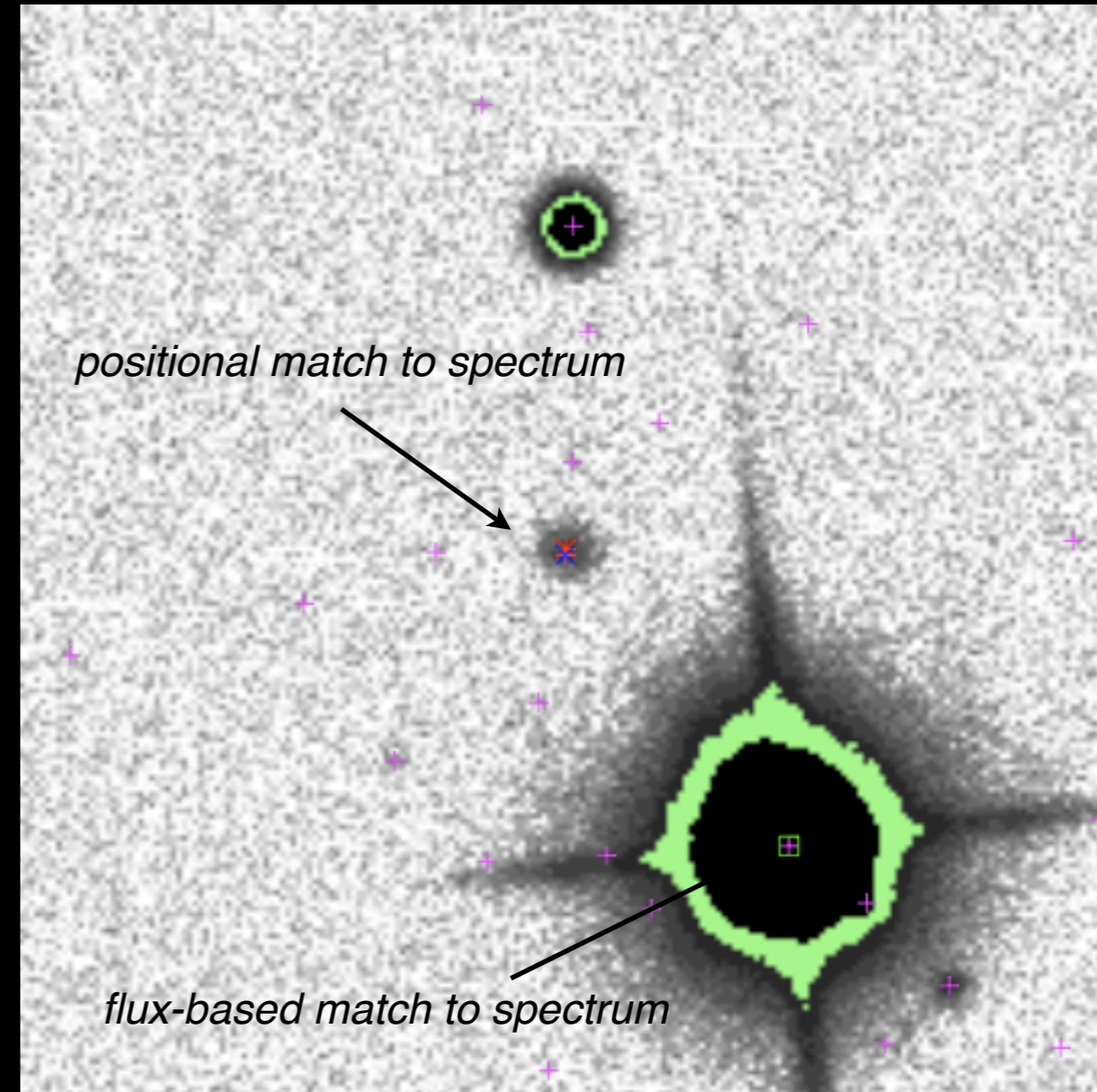
Flux-based matching

Successes (1-2 per plate) recover nearby galaxy matches much better.

Failures (1-2 per plate) reflect errors in photometry in all cases I've seen; e.g. in this case photo underestimates flux of galaxy by more than a factor 10, due to deblending



- + All unique objects
- * Location to match (J083336.33+293007.2)
- × Positional match 3560/301/5/142/310
- Flux-based match 3560/301/5/142/311
flagged because aperflux=4.346 << fiberflux=12.599
used brightest child, with flux=9.193 out of 14.003



- + All unique objects
- * Location to match (J084045.91+295200.3)
- × Positional match 3606/301/3/43/60
- Flux-based match 3606/301/3/43/56
flagged because aperflux=0.488 << fiberflux=7.039
used brightest child, with flux=6.350 out of 7.297



DR8 & BOSS Data Access Summary

1. Science Archive Server:
 1. *All raw and archived reduced DR8 data available through wget/rsync*
 2. *Interactive web interface under development (see BOSS)*
2. SEGUE-2 data: *reductions finished Fall 2009, targeting finished Spring 2010*
 1. *SAS flat files described at https://sdss3.org/internal/branches/v3/dr8/spectro/spectro_catalog_access.php*
 2. *CAS interface at <http://skyservice.pha.jhu.edu/casjobs/> (use SEGUE2 context)*
 3. *Spectrum tools at <https://trac.sdss3.org/wiki/SEGUE2/DataAccess>*
3. BOSS imaging: *reductions & calibrations finished July 2010*
 1. *SAS flat files described at https://sdss3.org/internal/branches/v3/dr8/imaging/imaging_access.php*
 2. *Testbed version of data available since Aug. 2009 at: <http://skyserver.sdss.org/dr8/en/>*
 3. *DR8 version of data still being loaded as we speak (photometry > 90% loaded!)*
4. BOSS spectroscopy: *first year reductions finished July 2010*
 1. *Detailed description of spectrum access and tools at https://trac.sdss3.org/wiki/BOSS/data_access*
 2. *Web form and interface up and running at <https://spectra.sdss3.org:8000> (see Price-Whelan talk)*
 3. *Tinker, White etc. working on clustering samples: <https://trac.sdss3.org/wiki/BOSS/clustering>*



DR8 spectroscopic data access

https://sdss3.org/internal/branches/v3/dr8/spectro/spectro_catalog_access.php

SAS location	CAS table	Description
plates-dr8.fits (2.6 Mb) (in <i>SPECTRO_REDUX</i> ; see <i>datamodel</i>)	plateX	List of all DR8 plates
specObj-dr8.fits (2.2 Gb) (in <i>SPECTRO_REDUX</i> ; see <i>datamodel</i>)	specObjAll	Redshifts and classifications of all SDSS spectra
ssppOut-dr8.fits (1.6 Gb) (in <i>SSPP_REDUX</i> ; see <i>datamodel</i>)	sppParams	Stellar parameters from SSPP
ssppOut-dr8.lineindex.fits (2.4 Gb) (in <i>SSPP_REDUX</i> ; see <i>datamodel</i>)	sppLines	Stellar line indices from SSPP
photoPlate-dr8.fits (5.5 Gb) (in <i>SPECTRO_REDUX</i> ; see <i>datamodel</i>)	join on photoObjAll	Photometric flux-based matches
photoPosPlate-dr8.fits (5.5 Gb) (in <i>SPECTRO_REDUX</i> ; see <i>datamodel</i>)	join on photoObjAll	Photometric position-based matches
photoMatchPlate-dr8.fits (255 Mb) (in <i>SPECTRO_REDUX</i> ; see <i>datamodel</i>)		details of match results
galSpecInfo-dr8.fits (364 Mb) (in <i>SPECTRO_REDUX</i> ; see <i>datamodel</i>)	galSpecInfo	Information for each galaxy processed by Garching group
galSpecIndx-dr8.fits (1.9 Gb) (in <i>SPECTRO_REDUX</i> ; see <i>datamodel</i>)	galSpecIndx	Index measurements for each galaxy
galSpecLine-dr8.fits (1.7 Gb) (in <i>SPECTRO_REDUX</i> ; see <i>datamodel</i>)	galSpecLine	Line measurements for each galaxy
galSpecExtra-dr8.fits (339 Mb) (in <i>SPECTRO_REDUX</i> ; see <i>datamodel</i>)	galSpecExtra	Extra physical parameters for each galaxy
spPlate-PLATE-MJD.fits (in <i>SPECTRO_REDUX</i> /[RUN2D]/[PLATE]; see <i>datamodel</i>)		Individual spectra for each observation of each plate
spec-image-PLATE-MJD-FIBER.png (in <i>SPECTRO_REDUX</i> /images/[RUN2D] /[PLATE])	specObjAll	PNG images of each spectrum



DR8 spectroscopic data access

CasJobs

http://skyservice.pha.jhu.edu/casjobs/SubmitJob.aspx

Gmail - Inbox - mic... extragalactic-nyu | ... GEOSTATIONARY SA... DataTelecons - SDSS... Observatory/PlateD... http://skyservice.ph... SkyServer DR7 Search SDSS SkyServer DR8

Gmail - P... BOSS/dat... SDSS-III SDSS-III CasJobs SEGUE2/... SDSS-III SDSS Sky... BOSS/dat... BOSS Spe...

SDSS Query / CasJobs

Help Tools Query History MyDB Import Groups Output Profile Queues SkyServer Logout mb144

Context **Table (optional)** **Task Name**

SEGUE2 MyTable_6 My Query

Samples Recent Clear Line 1, Col 57 [1 s] **Query complete!** Syntax Plan Quick Submit

```
select count(*) from specobjall where scienceprimary > 0
```

1 row(s)

Column1
1653087

Plot Save As HTML Query Results Both

Contact
\$Name: v3_5_17 \$, \$Revision: 1.70 \$, Last modified: Wednesday, September 17, 2008 at 3:35:22 PM

Done



DR8 imaging data access

https://sdss3.org/internal/branches/v3/dr8/imaging/imaging_access.php

SAS location	CAS table	Description
photoObj-RUN-CAMCOL-FIELD.fits (in BOSS_PHOTOOBJ ; see datamodel)	photoObjAll	Photometric parameters for objects in each imaging field . (around 938,000 files total, each around 3.5Mb)
photoField-RUN-CAMCOL.fits (in BOSS_PHOTOOBJ ; see datamodel)	Field	Metadata for each imaging field in a camcol (4,590 files total, each around 1.5Mb)
photoRun-RUN.fits (in BOSS_PHOTOOBJ ; see datamodel)	Run	Metadata for each imaging run (765 files total, one for each run, each around 15kb)
calibObj-RUN-CAMCOL-TYPE.fits.gz (in PHOTO_SWEEP ; see datamodel)		"Sweep" data for each imaging camcol (4590 files total, one for each run, each around 70Mb)
photoEXT-RUN-CAMCOL.fits (in BOSS_PHOTOOBJ/external ; see datamodels)	TWOMASS, TWOMASSXSC, USNO, First, RC3, ROSAT, properMotions	External catalog matches and ancillary information for each camcol. Only lists SDSS objects that match. Field-by-field version in subdirectories.
frame-BAND-RUN-CAMCOL-FIELD.fits.bz2 (in BOSS_PHOTOOBJ/frames ; see datamodels)		Calibrated, sky-subtracted corrected frames (SDSS-III format). JPG versions can be browsed (as in this example)
Resolve information (in PHOTO_RESOLVE ; see datamodel)		Information about the SDSS window function, including a list of all fields in window_flist.fits (336 Mb)



Corrected frames, new format: calibrated, sky-subtracted, correct WCS

Frames For Run 3712

http://mirror.sdss3.org/sas/dr8/groups/boss/photoObj/frames/301/3712/frames-run-003712.html

apache point observatory

Gmail - Priority In... DataHandling/DR... BOSS Spectra SDSS-III APO Home Page Frames For Run 3... Search for Objects...

RUN= 3712 RERUN= 301 CAMCOL= 1 FIELD= 191	RUN= 3712 RERUN= 301 CAMCOL= 2 FIELD= 191	RUN= 3712 RERUN= 301 CAMCOL= 3 FIELD= 191	RUN= 3712 RERUN= 301 CAMCOL= 4 FIELD= 191	RUN= 3712 RERUN= 301 CAMCOL= 5 FIELD= 191	RUN= 3712 RERUN= 301 CAMCOL= 6 FIELD= 191
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RUN= 3712 RERUN= 301 CAMCOL= 1 FIELD= 181	RUN= 3712 RERUN= 301 CAMCOL= 2 FIELD= 181	RUN= 3712 RERUN= 301 CAMCOL= 3 FIELD= 181	RUN= 3712 RERUN= 301 CAMCOL= 4 FIELD= 181	RUN= 3712 RERUN= 301 CAMCOL= 5 FIELD= 181	RUN= 3712 RERUN= 301 CAMCOL= 6 FIELD= 181

Done



DR8 imaging data access

CasJobs

http://skyservice.pha.jhu.edu/casjobs/SubmitJob.aspx

SDSS Query / CasJobs

Help Tools Query History MyDB Import Groups Output Profile Queues SkyServer Logout mb144

Context Table (optional) Task Name
 TestDR8 MyTable_6 My Query

Samples Recent Clear Line 1, Col 110 [1 s] Query complete! Syntax Plan Quick Submit

```
select top 100 objid, run, camcol, field, obj, rerun, mode, resolvestatus, ra, dec, cmodelmag_r, cmodelflux_r from photoObjAll where mode = 1
```

100 row(s)

objid	run	camcol	field	obj	rerun	mode	resolvestatus	ra	dec	cmodelmag_r	cmodelflux_r
1191503432588918879	4623	1	31	95	137	1	257	160.961805471712	29.0988178219229	17.7986	75.95527
1191503432588918880	4623	1	31	96	137	1	257	160.96184640912	29.0963443631288	20.66333	5.425701
1191503432588918904	4623	1	31	120	137	1	257	160.924192432678	29.0920031041684	19.24488	20.04623
1191503432588918946	4623	1	31	162	137	1	257	160.925965145933	29.0973149670145	20.84509	4.588469
1191503432588918953	4623	1	31	169	137	1	257	160.944665451128	29.1087160402559	19.5069	15.74756
1191503432588918958	4623	1	31	174	137	1	257	160.959073325548	29.1064197793496	21.77305	1.945983
1191503432588918965	4623	1	31	181	137	1	257	160.982209689414	29.1086714726425	25.87247	-0.2768542

Plot Save As HTML Query Results Both

Contact
 \$Name: v3_5_17 \$, \$Revision: 1.70 \$, Last modified: Wednesday, September 17, 2008 at 3:35:22 PM

Done



BOSS spectroscopy

See https://trac.sdss3.org/wiki/BOSS/data_access for general data access; this is most useful for getting at the catalog or getting at a large number of the spectra. Tools there in IDL, python, sm, etc. For small numbers of spectra, consider:

BOSS Spectra - Get Spectra

sdss3.org <https://spectra.sdss3.org:8000/getSpectra.html?plateid=4056&mjd=55357&fiber=1-10>

Home Spectra Request Form Browse Spectra Show Help

Plate ID: 4056
MJD: 55357
Fiber: 1-10
Submit

[Table as Tab-Delimited Text](#)
[Download FITS Files](#)

Plate ID	Fiber #	MJD	RA (degrees)	Dec (degrees)	Redshift	Class	All Inverse	Plot Spectrum	Open in CAS
4056	1	55357	247.97742	14.50900	0.00032841	STAR	<input type="checkbox"/>	Plot	CAS
4056	6	55357	248.11719	14.68357	2.53564000	QSO	<input type="checkbox"/>	Plot	CAS
4056	7	55357	247.89876	14.52296	0.65338300	GALAXY	<input type="checkbox"/>	Plot	CAS
4056	9	55357	247.85674	14.55213	0.00001636	STAR	<input type="checkbox"/>	Plot	CAS
4056	2	55357	247.94679	14.47149	0.32140000	GALAXY	<input type="checkbox"/>	Plot	CAS
4056	3	55357	247.91604	14.46545	0.39062700	GALAXY	<input type="checkbox"/>	Plot	CAS
4056	4	55357	248.06605	14.67604	0.35797900	GALAXY	<input type="checkbox"/>	Plot	CAS
4056	5	55357	248.10903	14.66361	0.27999400	GALAXY	<input type="checkbox"/>	Plot	CAS
4056	8	55357	247.92221	14.72113	0.44917700	GALAXY	<input type="checkbox"/>	Plot	CAS
4056	10	55357	247.94787	14.72713	2.39048000	QSO	<input type="checkbox"/>	Plot	CAS

[Download FITS Files](#)



BOSS spectroscopy

See https://trac.sdss3.org/wiki/BOSS/data_access for general data access; this is most useful for getting at the catalog or getting at a large number of the spectra. Tools there in IDL, python, sm, etc. For small numbers of spectra, consider:

The screenshot shows the BOSS Spectra web interface. The browser address bar displays the URL: <https://spectra.sdss3.org:8000/spectrumDetail?plateid=4056&mjd=55357&fiber=7>. The page title is "BOSS Spectra Plate ID: 4056 - MJD: 55357 - Fiber: 7". The main content area displays the following information:

Plate ID: 4056 - MJD: 55357 - Fiber: 7 - Class: GALAXY

Open in CAS Click to Download [spSpec-4056-55357-0007.fits](#) Full-Size Plot

PHOTO CUTOUT
Coming Soon...

Overview

Wavelength=4255.61
Flux=4.05

Add Wavelength Markers
Remove Wavelength Markers

1E-17 erg/cm^2/s/Ang

Angstroms (observed)

Class: GALAXY
Subclass: ---
RA: 247.89876
Dec: 14.52296
Z: 0.653383
Z Err: 0.000219489
Z Warning: 0
ANCILLARY_TARGET1: ---
BOSS_TARGET1: GAL_CMASS_COMM
GAL_GRRED
GAL_CMASS_ALL



BOSS spectroscopy

But also, UU BOSS interface: <http://boss.astro.utah.edu/>
Works with *uuplotspec.pro* IDL tool

The screenshot shows the BOSS spectroscopy web interface. The browser address bar displays <http://boss.astro.utah.edu/index.php?topicID=2&>. The page header includes the University of Utah logo and navigation links for campus, a to z index, map, directory, and calendar. A search bar is also present.

The main content area features a navigation menu on the left with options: BOSS, BOSS Collaboration, BOSS Spec Feedback (selected), BOSS References, Collaboration Login, and Contact. The main content area includes a section for "Download Spec Feedback Software (IDL)" and a "Search 205000 Spectra" section. The search filters are set to BOSS v5_4_9, Obj Type: show all, Class: show all, Subclass: show all, Plate: [empty], MJD: [empty], FiberID: [empty], Member: show all members, and Comment: [empty]. An "Issues" dropdown menu is open, showing options: Reduction/Calibration, Redshift/Class, Sky Subtraction, Non-masked Artifacts, Little/No Data, and Other/Unknown.

Below the search filters, a table displays "Matched 205000 Spectra -- Showing match 1...500 on page 1 of 410." The table has columns for Plate, MJD, FiberID, z, z_err, RA, Dec, Obj Type, Class, Subclass, Repeats, and Feedback. The table contains 10 rows of data, each with a green status icon and a plus sign in the Feedback column.

Plate	MJD	FiberID	z	z_err	RA	Dec	Obj Type	Class	Subclass	Repeats	Feedback
3586	55181	1	0.570539	1.67151e-05	9.3319111	-0.46295596	GALAXY	QSO	BROADLINE	0	0
3586	55181	2	0.719708	6.84501e-05	9.3300775	-0.62411693	GALAXY	GALAXY		0	0
3586	55181	3	0.525557	0.000171070	9.4321040	-0.24518145	GALAXY	QSO	BROADLINE	0	0
3586	55181	4	6.92921e-05	9.93438e-06	9.4274040	-0.34140599	SPECTROPHOTO_ST	STAR	F5	1	0
3586	55181	5	1.70180	0.451614	9.3686725	-0.33922302	GALAXY	QSO		1	0
3586	55181	6	0.532896	9.20895e-05	9.4091536	-0.25005844	GALAXY	GALAXY		1	0
3586	55181	7	0.474364	0.000121781	9.3604673	-0.21284117	GALAXY	GALAXY		0	0
3586	55181	8	0.489526	0.000157224	9.3519265	-0.15962207	GALAXY	GALAXY		0	0
3586	55181	9	0.489900	0.000176661	9.4520258	-0.10527381	GALAXY	GALAXY		0	0
3586	55181	10	0.464617	0.000156334	9.4777228	-0.13183203	GALAXY	GALAXY		0	0

BOSS spectroscopy

<http://www.astro.washington.edu/users/anderson/oddspectra/bin/c.cgi>

Odd spectrum page

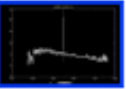
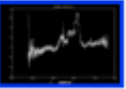
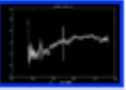





Welcome to the SDSS Serendipity odd spectra page. Below you will find a list of objects by number by default, but a number of other options are available: you can sort, search, etc.

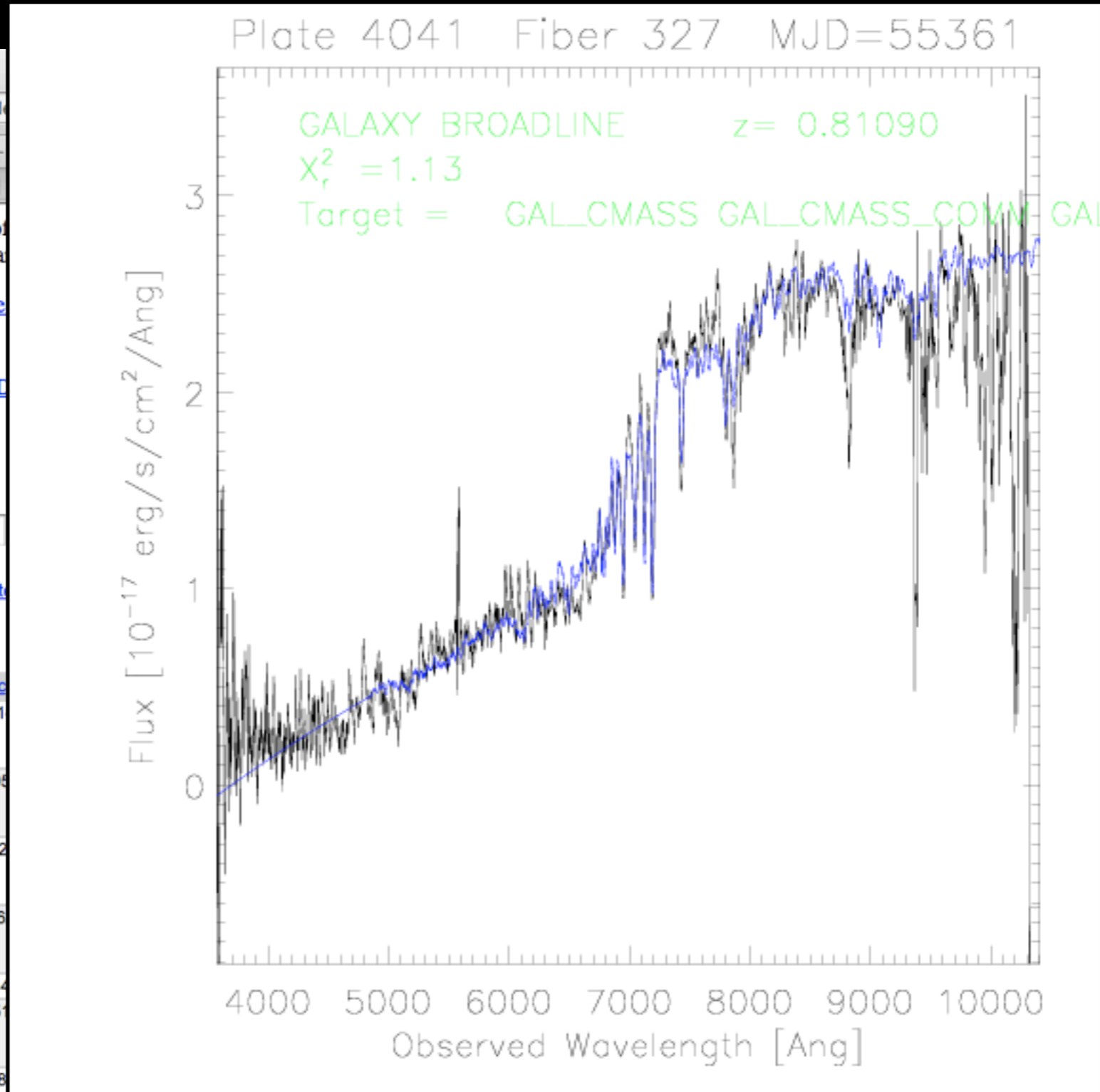
[Quasars: High redshift, Odd BAL, BLLAC, Odd, Odd profile, Bright, Red, Type I](#)
[Galaxies: High redshift, Odd, EA, Supernova](#)
[White Dwarfs: DZ, DQ, Magnetic, Odd](#)
[Other Stars: Cataclysmic Variable, Composite, Odd, late type \(M or L\), Sub Dwarf](#)
[Other: Unknown, Blue featureless, Superposition, Glitch, Not yet updated](#)

plate mjd fiberid
 min RA max RA min dec max dec
 Classification Search comments for:

[Clear \(original page\)](#) [New \(last 14 days\) items](#)
[List of plate updates](#)

Prev 25 [Next 25](#) of 9148 objects selected

	interest	plate	mjd	fiber	RA	Dec
	1	188	51457	135	358.848	-1.231
	1	188	51457	296	358.043	-0.6595
	1	188	51457	343	358.025	0.4372
	1	190	51457	156	2.8915	-0.00026
	1	202	51941	244	29.9145	-0.9044
	1	203	51456	141	32.6798	-0.3051
	0	203	51456	394	31.8718	0.4118
	1	203	51456	533	32.9284	1.07957





BOSS spectroscopy

*Also in progress, a more ambitious “Science Portal”
being developed by the BPG group*

The screenshot shows a web browser window with the URL `http://testing.sdss3-brazil.org/qc_main#`. The page header features the SDSS III logo and the text "SDSS III SLOAN DIGITAL SKY SURVEY" on the left, and "Science Portal" on the right. A navigation menu includes links for Home, Release Notes, My Workspace, Pipelines, Tools, Data Server, Documentation, Help, Credits, Other Portals, and Logout.

SDSS III SAS User Fiber List Submission Form

User List Specification

Provide your list of fiber as a space or comma separated value (CSV) lists. Example:

```
#plate,MJD,fiber  
3622,55123,320
```

The final column, fiber, is optional; if no value is supplied, results for all fibers will be returned. You may include comments by starting a line with a # character. Queries are now limited to 10 lines (prototype) or fewer; please break up larger tables into multiple submissions.

Unlike previous versions of the DAS, this version does not attempt to interpret column headings; columns must have the content and be in the order specified in the example.

```
#plate,MJD,fiber  
3622,55123,320
```

Release Date: Thu Sep 16 05:31:02 2010
Done



Documentation

1. Probably our largest remaining issue.
2. Small team has made big progress: Natalia Connolly, Michael Strauss, Jordan Raddick, Bob Nichol, Ben Weaver; much documentation copiable from DR7 web site with some small changes. Results viewable in near real-time at: <https://sdss3.org/internal/branches/v3/>. This is in the v3 branch of the www product, which can be edited by anyone!
3. We need a major push on BOSS imaging documentation and SEGUE-2 target and stellar parameters documentation.
4. October 12-15 at NYU we will have a Documentation Festival for any / all interested parties. <https://trac.sdss3.org/wiki/DataHandling/DR8MeetingOct10>
5. Finally, as a general note, recall that survey file format documentation is always maintained at the datamodel: <http://data.sdss3.org/datamodel/> (maintained in the sas data product, which also can be edited by anyone).



1. The structure of the data in SAS is described by the data model at <https://data.sdss3.org/datamodel>, maintained in `$SAS_DIR/datamodel`
2. We track not just the file name, but also its position in the directory structure.
3. Of note: we always refer to root directories using environmental variable names for portability (`$PHOTO_REDUX`, `$SPECTRO_REDUX`, `$BOSS_PHOTOOBJ`, `$CAS_LOAD` etc.)

Index of Files in

https://sdss3.org/internal/datamodel/index-files.html

Most Visited Getting Started Latest Headlines

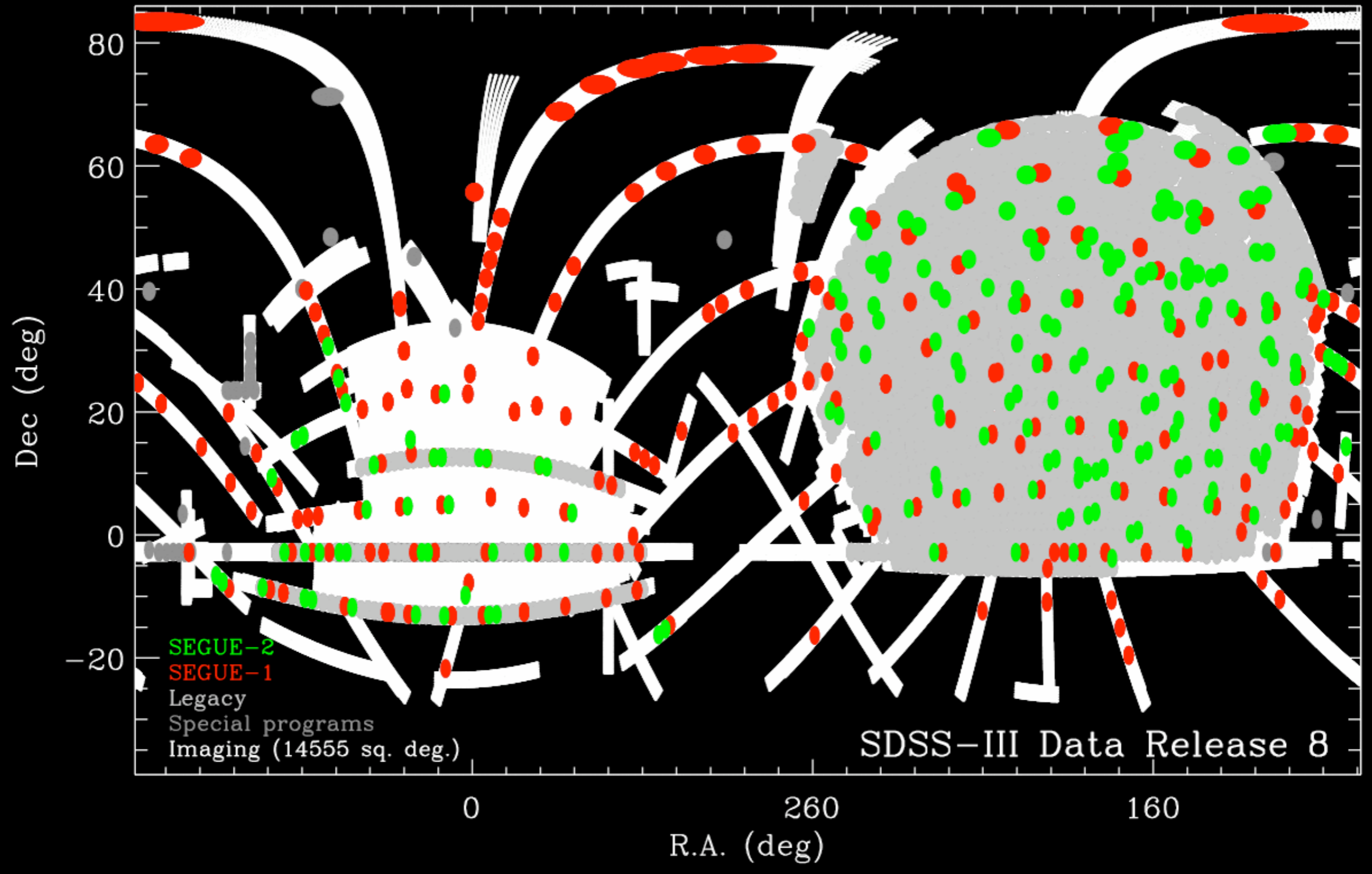
Gmail - Inbox - michael... DataHandling/DataDistri... SkyServer DR7 Search

Index of Files in the SDSS-III Data Model

Please note: this file is generated automatically. Do not attempt to edit it or check it in to svn.

- [asParam](#) (`$PHOTO_REDUX/RERUN/RUN/astrom`)
- [asPlan](#) (`$PHOTO_REDUX/RERUN/RUN/astrom`)
- [asQA](#) (`$PHOTO_REDUX/RERUN/RUN/astrom`)
- [asTrans](#) (`$PHOTO_REDUX/RERUN/RUN/astrom`)
- [calibMatch](#) (`$PHOTO_REDUX/RERUN/RUN/nfcalib`)
- [calibObj](#) (`$PHOTO_SWEEP/RERUN`)
- [calibPhotom](#) (`$PHOTO_REDUX/RERUN/RUN/nfcalib`)
- [calibPhotomGlobal](#) (`$PHOTO_CALIB/RERUN/RUN/nfcalib`)
- [csv_ready](#) (`$CAS_LOAD/phCSV/SKYVERSION/RUN`)
- [datasweep-index](#) (`$PHOTO_SWEEP`)
- [fpAtlas](#) (`$PHOTO_REDUX/RERUN/RUN/objcs/CAMCOL`)
- [fpBIN](#) (`$PHOTO_REDUX/RERUN/RUN/objcs/CAMCOL`)
- [fpC](#) (`$PHOTO_REDUX/RERUN/RUN/objcs/CAMCOL`)
- [fpFieldStat](#) (`$PHOTO_REDUX/RERUN/RUN/objcs/CAMCOL`)
- [fpM](#) (`$PHOTO_REDUX/RERUN/RUN/objcs/CAMCOL`)
- [fpObjc](#) (`$PHOTO_REDUX/RERUN/RUN/objcs/CAMCOL`)
- [fpParam](#) (`$PHOTO_REDUX/RERUN/RUN/objcs/CAMCOL`)
- [fpPlan](#) (`$PHOTO_REDUX/RERUN/RUN/objcs/CAMCOL`)
- [fpPlan](#) (`$PHOTO_REDUX/RERUN/RUN/photo`)
- [idB](#) (`$PHOTO_REDUX/RERUN/RUN/photo/calib`)
- [idFrameLog](#) (`$PHOTO_REDUX/RERUN/RUN/logs`)
- [idGang](#) (`$PHOTO_DATA/RUN/gangs`)
- [idR](#) (`$PHOTO_DATA/RUN/fields/CAMCOL`)
- [idReport](#) (`$PHOTO_REDUX/RERUN/RUN/logs`)
- [idWeather](#) (`$PHOTO_REDUX/RERUN/RUN/logs`)
- [koCat](#) (`$PHOTO_REDUX/RERUN/RUN/ssc`)
- [opBC](#) (`$PHOTO_REDUX/RERUN/RUN/logs`)
- [opCamera](#) (`$PHOTO_REDUX/RERUN/RUN/logs`)
- [opConfig](#) (`$PHOTO_REDUX/RERUN/RUN/logs`)
- [opECalib](#) (`$PHOTO_REDUX/RERUN/RUN/logs`)
- [photoField](#) (`$BOSS_PHOTOOBJ/RERUN/RUN`)
- [photoMatchPlate](#) (`$BOSS_PHOTOOBJ/plates/RERUN/PLATE4`)

Done



SDSS-III Data Release 8