

# Apps Status Report for December 15, 2009

## Guide on Reporting Percentage Completed:

For software development tasks,

- use 0% if the solution is still being designed;
- use 25% if the solution's design is completed;
- use 50% if the solution is implemented and tested within the Ticket branch;
- use 75% if the implementation review is complete, the Ticket branch has been merged onto the Trunk branch, and the Ticket is closed.
- use 100% if the affected Trunk packages are tagged and released.

For other tasks, still use these increments, but apply their meaning as best as possible.

**Note:** Please place an asterisk (\*) after the percent if you updated this value in this report.

## Allsman Robyn

Reported 12/17/09

ID	Percent	Task	Comments
APP204	0%	identify scientists to analyze stage output	<i>not started</i>
APP200	0%	validate initial integration run successfully completed	<i>not started</i>

\*Percent updated in this report

Comments:

### Other Activities

I continue to concentrate on the Parasoft C++ Coding Standards: developing new and/or refining Rules and also performing the C++ Standards Checks on submitted modules. This includes the cleanup work necessitated by last month's C++ Coding Standards changes approved by the TCT.

I worked on the EA model in preparation for Tim's session with Doug Rosenberg next month to review/update the UML model wrt DC3b.

## Axelrod Tim

Reported xx/xx/xx

ID	Percent	Task	Comments
APP155	0%	photometric self calibration	<i>not started</i>
APP159	0%	evaluate tools and make selection	<i>not started</i>
APP158	0%	configure and test for HEALpix projection	<i>not started</i>

APP161	0%	configure and test for display of full focal plane LSST image	<i>not started</i>
APP56	0%	defining units	<i>not started</i>
APP91	80%	define DC3b goals for SDQA	
APP191	50%	Provide special case simulation needs (Axelrod)	

\*Percent updated in this report

Comments:

### Other Activities

## Becker Andy

Reported 12/16/09

ID	Percent	Task	Comments
APP145	50%	move applications code out of stage code	
APP80	75%*	adapt PSF spatial cell model for ip_diffim	
APP79	75%*	implement sum-of-gaussians (Alard-Lupton) kernel basis	
APP78	75%*	investigate regularizing delta function kernels	
APP95	25%*	code to measure quality of difference imaging coadds	
APP100	0%	test difference imaging coadds	<i>not started</i>
APP123	0%	find CFHT fringe frames and move to NCSA	<i>not started</i>

\*Percent updated in this report

Comments:

### Other Activities

## Becla Jacek

Reported 12/18/09

ID	Percent	Task	Comments
APP53	75%*	schema updates for all source related tables and object table	<i>Current iteration done, I'm expecting more updates, waiting for input from Robert/Tim?</i>
APP54	0%	schema updates for all exposure related tables	<i>not started</i>
APP55	0%	synthetic sources of data	<i>not started</i>
APP56	0%	defining units	<i>not started</i>
APP57	75%*	standardizing names	<i>Mostly done, some fine-tuning still needed, related to covariance, tai etc, input from application people needed</i>

\*Percent updated in this report

Comments:

## Other Activities

See my section in the middleware report

## Bickerton Steve

Reported xx/xx/xx

ID	Percent	Task	Comments
APP112	25%	stellar photometry	

\*Percent updated in this report

Comments:

## Other Activities

## Bosch Jim

Reported 12/15/09

ID	Percent	Task	Comments
APP109	*100%	complete API for model fitting with marginalization over calibration parameters	
APP108	*75%	implement convolved Sersic models	
APP107	*50%	implement multifit fitter	
APP117	0%	implement constrained models for forced photometry	<i>not started</i>
APP116	0%	create LSST stages for photometry	<i>not started</i>

See task list for [?Dubcovsky Martin](#)

Comments:

## Other Activities

## Cleveland Matt

Reported xx/xx/xx

ID	Percent	Task	Comments
APP154	0%	develop distributed linkTracklets implementation	<i>not started</i>

\*Percent updated in this report

Comments:

## Other Activities

## Dubcovsky Martin

Reported 12/15/09

ID	Percent	Task	Comments
APP150	100%	move applications code out of stage code	
APP168	100%	modify stage code to conform with new MW API	
APP109	*100%	complete API for model fitting with marginalization over calibration parameters	
APP108	*75%	implement convolved Sersic models	<i>Point source model work is complete</i>
APP107	*50%	implement multifit fitter	
APP118	*25%	implement multifit pipeline which leverages multifit API and image access framework	
APP119	0%	implement pipeline stage for extracting ellipse parameters, flux, and bounding box from detections	<i>not started</i>
APP117	0%	implement constrained models for forced photometry	<i>not started</i>
APP116	0%	create LSST stages for photometry	<i>not started</i>

\*Percent updated in this report

Comments:

### Other Activities

## Grav Tommy

Reported xx/xx/xx

ID	Percent	Task	Comments
APP134	0%	generate PS-SSM catalog for LSST	<i>not started</i>

\*Percent updated in this report

Comments:

### Other Activities

## Jarvis Mike

Reported 12/18/09

ID	Percent	Task	Comments
APP105	25%	PSF for deep detection	"Making good progress incorporating existing code into LSST framework."

\*Percent updated in this report

Comments:

### Other Activities

## Jones Lynne

Reported xx/xx/xx

ID	Percent	Task	Comments
APP128	90%	evaluate/generate Ops Sim Cadence for use	

\*Percent updated in this report

Comments:

### Other Activities

## Krughoff Simon

Reported xx/xx/xx

ID	Percent	Task	Comments
APP146	25%	move applications code out of stage code	
APP84	0%	apply fringe frame correction	<i>not started</i>
APP83	50%	develop camera state classes (CCDinfo and Ampinfo)	
APP82	25%	develop calibration products database classes	

\*Percent updated in this report

Comments:

### Other Activities

## Laher Russ

Reported 12/22/09

ID	Percent	Task	Comments
APP212	75%	Update SDQA package to confirm with C++ standards	
APP90	0%	implement SDQA tool functionality to support DC3b goals	<i>not started</i>
APP89	0%	query metadata and package in C++ container	<i>not started</i>
APP88	0%	implement threshold comparison	<i>not started</i>
APP211	25%	WCS verification code	
APP210	50%	ATpy evaluation	

\*Percent updated in this report

Comments:

## Other Activities

### Levine Deborah

Reported 12/17/09

ID	Percent	Task	Comments
APP90	0%	implement SDQA tool functionality to support DC3b goals	<i>not started</i>

\*Percent updated in this report

Comments: Scheduled meeting in Tucson with Tim after the AAS meeting.

## Other Activities

### Lim KT

Reported xx/xx/xx

ID	Percent	Task	Comments
APP6	0%	interslice communications	<i>not started</i>
APP7	0%	post spatial matching (stretch goal)	<i>not started</i>
APP192	0%	translate overall production into pipeline , stages, and policies	<i>not started</i>

\*Percent updated in this report

Comments:

## Other Activities

### Lupton Robert

Reported xx/xx/xx

ID	Percent	Task	Comments
APP139	0%	integrate HEALPix into software stack	<i>not started</i>
APP95	40%	code to measure quality of difference imaging coadds	
APP100	0%	test difference imaging coadds	<i>not started</i>
APP149	80%	move applications code out of stage code	
APP167	0%	modify stage code to conform with new MW API	<i>not started</i>
APP101	75%	simplified background estimation	
APP121	50%	adapt astrometry code for DC3b use	

\*Percent updated in this report

Comments:

## Other Activities

# Monet Dave

Reported xx/xx/xx

ID	Percent	Task	Comments
APP121	50%	adapt astrometry code for DC3b use	

\*Percent updated in this report

Comments:

## Other Activities

# Monkewitz Serge

Reported xx/xx/xx

ID	Percent	Task	Comments
APP144	0%	move applications code out of stage code	<i>not started</i>
APP162	0%	modify stage code to conform with new MW API	<i>not started</i>
APP6	0%	interslice communications	<i>not started</i>
APP7	0%	post spatial matching (stretch goal)	<i>not started</i>
APP74	0%	characterization of and improvements to association cosmic ray rejection performance	<i>not started</i>

\*Percent updated in this report

Comments:

## Other Activities

# Mullally Fergal

Reported xx/xx/xx

ID	Percent	Task	Comments
APP86	60%	implement improvements for WCS	
APP151	25%	implement stage structure for support astrometry code	

\*Percent updated in this report

Comments:

## Other Activities

## Myers Jon

Reported xx/xx/xx

ID	Percent	Task	Comments
APP140	25%	integrate MOPS stages with new C++ KD-Tree tools	
APP132	75%	identify cluster to perform LSST-MOPS runs	
APP129	30%*	run DayMOPS with solar system model	
APP141	75%	write linkTracklets and unit tests	
APP128	90%	evaluate/generate Ops Sim Cadence for use	

\*Percent updated in this report

Comments:

### Other Activities

- Worked with Mikael Granvik to test new f2py-based bindings for OOrb
- Developed input asteroid detection catalog generation software with Lynne Jones and Simon Krughoff
- Got TeraGrid? account and access to Abe for testing MOPS
- M.S. Thesis defense, completed my masters!

## Owen Russ

Reported xx/xx/xx

ID	Percent	Task	Comments
APP77	0%	fix ticket #873	<i>not started</i>
APP94	0%	code to warp images to/from sky pixel representation	<i>not started</i>
APP209	0%	implement outlier rejection	<i>not started</i>
APP98	50%	code to create PSF-matched difference imaging coadds (no outlier rejection)	
APP95	40%	code to measure quality of difference imaging coadds	
APP104	25%	code to detect chi-squared deep detection coadds (no outlier rejection)	

\*Percent updated in this report

Comments:

### Other Activities

## Pierfederici Francesco

Reported xx/xx/xx



ID	Percent	Task	Comments
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\*Percent updated in this report

Comments:

### Other Activities

## TBD

Reported xx/xx/xx

ID	Percent	Task	Comments
APP103	0%	create a set of chi-squared deep detection coadds	<i>not started</i>
APP102	0%	code to measure quality of deep detection coadds	<i>not started</i>
APP208	0%	define CFHT to be used	<i>not started</i>
APP201	0%	identify tools to analyze science data quality of stage output	<i>not started</i>
APP199	0%	validate science quality of initial integration run	<i>not started</i>

\*Percent updated in this report

Comments:

### Other Activities

### Other Activities

## Major Accomplishments

Significant breakthroughs, issues resolved.

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## Objectives for the Next Period

What you expect to accomplish.

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## Problems Encountered and Solutions Being Pursued

Budget or schedule variance, technical issues, management issues.