Apps Status Report for March 15, 2010

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 16 March 2010

ID	Percent	Task	Comments
APP204	0%	identify scientists to analyze stage output	not started - given to TSA
APP200	0%	validate initial integration run successfully completed	not started

^{*}Percent updated in this report

Comments:

Other Activities

DC3b

- Implementing Buildbot script for nightly pipeline unit testing
- PT1 Integration and Test Planning

QA Support Tasks

- (too few) Software Standards check requests
- testing beta EA 8 for scenario based Activity integration-test generation
- preparing proposals for the March CCB meeting

SAT Support Tasks

- Reverse engineered packages to generate logical/class diagrams from implemented code
- UML design updates resulting from SAT review presentations

Axelrod Tim

Reported xx/xx/xx

ID	Percent	Task	Comments
APP155	0%	photometric self calibration	not started
APP159	0%	evaluate tools and make selection	not started
APP158	0%	configure and test for HEALpix projection	not started
APP161	0%	configure and test for display of full focal plane LSST image	not started
APP56	50%	defining units	
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 03/15/10

ID	Percent	Task	Comments
APPXX	25%	Update of ip_diffim based on design review (ticket 1176)	*
APPXX	25%	Implement correlation function for spatial kernel fit (ticket 1140)	*
APPXX	0%	Psf match two models for coadd generation (ticket 1161)	*
APP95	40%	code to measure quality of difference imaging coadds	
APP100	0%	test difference imaging coadds	not started
APP123	0%	find CFHT fringe frames and move to NCSA	not started

^{*}Percent updated in this report

Comments:

Other Activities

Becla Jacek

Reported 03/17/10

ID	Percent	Task	Comments
APP53	1100%	schema updates for all source related tables and object table	
APP54	10%*	schema updates for all exposure related tables	
APP55	0%	synthetic sources of data	this is not part of DC3b any more
APP56	80%*	defining units	

Axelrod Tim 2

*Percent updated in this report

Comments:

Other Activities

see 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 xx/xx/xx

ID	Percent	Task	Comments
APP108	75%	implement convolved Sersic models	
APP117	0%	implement constrained models for forced photometry	not started
APP116	0%	create LSST stages for photometry	not started

^{*}Percent updated in this report

Comments:

Other Activities

Cleveland Matt

Reported xx/xx/xx

ID	Percent	Task	Comments
APP154	0%	develop distributed linkTracklets implementation	not started

^{*}Percent updated in this report

Comments:

Becla Jacek 3

Other Activities

Dodd Suzy

Reported 3/15/10

- Attended Design Reviews: Healpix, Meas_Alg, Pipeline Orchestra, DayMOPS (J. Daily from IPAC/WISE also attended)
- Attended Seattle breakout meetings on SUI and Data Access. IPAC will lead this new task.
- Discuss with Mike Freeman and infrastructure WG data access for PT1
- Start work on coordination of PT1 data access tools. Made inventory of possible IPAC and VO tools.
- Met with Jeff on IPAC priorities: now- DC3b Science requirements, PT1 data access tools, DC3b User Guide sections: later - Science User Interface use case, requirement generation and documentation.
- Standard meetings: Apps WG, DC3b, DM management, LSST management

Next Month

- Finish PT1 data access design and start implementation
- DC3B plan update
- Vacation April 12-16

Dubcovsky Martin

Reported 03/16/10

		implement convolved Sersic models	Working version in trunk. Testing quality of models
		and image access framework	All c++ code for this pipeling exists
APP119	25%*	implement pipeline stage for extracting ellipse parameters, flux, and bounding box from detections	All C++ code for this stage exists
APP117	10%*	implement constrained models for forced photometry	In design
APP116	0%	create LSST stages for photometry	not started

^{*}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	not started

^{*}Percent updated in this report

Other Activities 2

Other Activities

Jarvis Mike

Reported xx/xx/xx

ID	Percent	Task	Comments
APP105	50%	PSF for deep detection	

^{*}Percent updated in this report

Comments:

Other Activities

Jones Lynne

Reported xx/xx/xx

ID	Percent	Comments

^{*}Percent updated in this report

Comments:

Other Activities

Krughoff Simon

Reported 03/17/2010

ID	Percent	Task	Comments
APP84	0%	apply fringe frame correction	not started
APP83	75%	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 03/15/10

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

Grav Tommy 5

APP89	0%	query metadata and package in C++ container	not started
APP88	0%	implement threshold comparision	not started
APP211	50%	WCS verification stage	
APP210	75%	ATpy evaluation	
?	5%	WCS failure assessment stage	"started"

^{*}Percent updated in this report

Other Activities

- Reviewed my notes from the Tucson meeting in January 2010, and DC3b_Data_Quality_Requirements_V2.pdf.
- Created detailed SDQA task list for PT1, PT2, and PT3, and sent it to Deborah Levine for review.
- Started a GWT web application to facilitate DC3b science data validation.
- Looking at cosmic-rays in <u>ImSim</u> images and their mapping from CCD to amplifier coordinates.

Levine Deborah

Reported 3/15/09

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

^{*}Percent updated in this report

Comments: This task list really need to be updated per the DC3b replan and my task should probably read "manage" or "coordinate".

- Updated DC3b plan page
- Planning an Analysis Support "Implementation Frenzy" in August

Other Activities

- Still working on SDQA-proper longer range planning
- Working on solidifying the plan for Data Access Tools and have put tentative tasks into the DC3b plan page. Backend technology and developers have been identified, which front-end tool to use as the model is still under investigation.

Lim KT

Reported xx/xx/xx

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

^{*}Percent updated in this report

Laher Russ 6

Other Activities

Lupton Robert

Reported xx/xx/xx

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

^{*}Percent updated in this report

Comments:

Other Activities

I've been working on:

Definition of HEALPix for LSST. Redesign of meas::algorithms. Porting LSST code to Intel compilers (and os/x 10.6). Managing the P'ton group. Attending phone meetings and design reviews. Other things that I forget.

In other (Subaru) contexts, but relevant to LSST:

Working on file system layouts and objects ("Manager") to encapsulate them

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

Lim KT 7

Monkewitz Serge

Reported xx/xx/xx

ID	Percent	Task	Comments
APP144	0%	move applications code out of stage code	not started
APP162	0%	modify stage code to conform with new MW API	not started
APP6	0%	interslice communications	not started
APP7	0%	post spatial matching (stretch goal)	not started
APP74	111/6	characteriztion of and improvements to association cosmic ray rejection performance	not started

^{*}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	
APP129	35%	run DayMOPS with solar system model	
APP141	75%	write linkTracklets and unit tests	

^{*}Percent updated in this report

Comments:

Other Activities

Monkewitz Serge 8

Owen Russell

Reported xx/xx/xx

ID	Percent	Task	Comments
APP77	0%	fix ticket #873	not started
APP94	10%	code to warp images to/from sky pixel representation	I had 25% but we switched horses for HEALPix
APP209	50%*	implement outlier rejection	it is likely the final version will operate in HEALPix space
APP98	1711%	code to create PSF-matched difference imaging coadds (no outlier rejection)	
APP95	40%	code to measure quality of difference imaging coadds	
APP104	50%	code to detect chi-squared deep detection coadds (no outlier rejection)	further progress awaits HEALPix

^{*}Percent updated in this report

Comments:

Other Activities

Pierfederici Francesco

Reported xx/xx/xx

ID Percent Task Comments

^{*}Percent updated in this report

Comments:

Other Activities

Shaw, Dick

Reported 03/15/10

ID	Percent	Task	Comments
XXX	5%	Edit new DC3b User Guide	Constructed outline, some writing assignments made, created inventory of extant documents
XXX	0%	Create User training program for analysis of DC3b data products	not started
XXX	*20%	Assemble calibration reference files for DC3b processing	Created inventory of CFHT master de-trend files
XXX	*10%		implementation proposal posted to Trac

Owen Russell 9

		Compute metric to capture variation of image background	
XXX	10%	Automate comparison to ground truth for cosmic ray removal	not started
XXX	0%	Collate and present failure rate statistics for WCS, PSF on selected image types	not started
XXX	11 10/2	Generate statistics to characterize the quality of source subtraction in template-subtracted images	not started

^{*}Percent updated in this report

• CFHT-LS datasets have been identified for DC3b processing. Results of inventory have been posted to Trac.

Other Activities

- External User Support
 - ♦ Contributed to discussions in Infrastructure WG in planning for user access/support for DC3b data products
- Planned work
 - ♦ Create a Trac page with plan for de-assembling calibration reference files
 - ♦ Coordinate w/David Gehrig to transfer calibration reference (a.k.a. de-trend) files from CADC to NCSA.
 - ♦ Test scheme for evaluation of background in processed DC3b images

Van Dyk, Schuyler

Reported 3/16/10

- Attended Design Reviews
- Initiated work on IPAC-assigned chapters for DC3b User Guide.
- Attended Seattle meeting on SRD and ImSim, as well as SUI lunch-time breakouts.
- With Suzy, started work on coordination of PT1 data access tools. Made inventory of possible IPAC and VO tools.
- Met with Jeff on IPAC priorities.
- Assumed ownership of DC3b data quality requirements doc and DC3b validation/metrics evaluation tools ("metrics scorecard").
- Standard meetings: Apps WG, DC3b, TCT, DM management, as well as MW Infrastructure.

TBD

Reported xx/xx/xx

ID	Percent	Task	Comments
APP103	0%	create a set of chi-squared deep detection coadds	not started
APP102	0%	code to measure quality of deep detection coadds	not started
APP208	0%	define CFHT to be used	not started

Shaw, Dick 10

APP201	0%	identify tools to analyze science data quality of stage output	not started
APP199	0%	validate science quality of initial integration run	not started

^{*}Percent updated in this report

Other Activities

Major Accomplishments

Significant breakthroughs, issues resolved.

Objectives for the Next Period

What you expect to accomplish.

Problems Encountered and Solutions Being Pursued

Budget or schedule variance, technical issues, management issues.