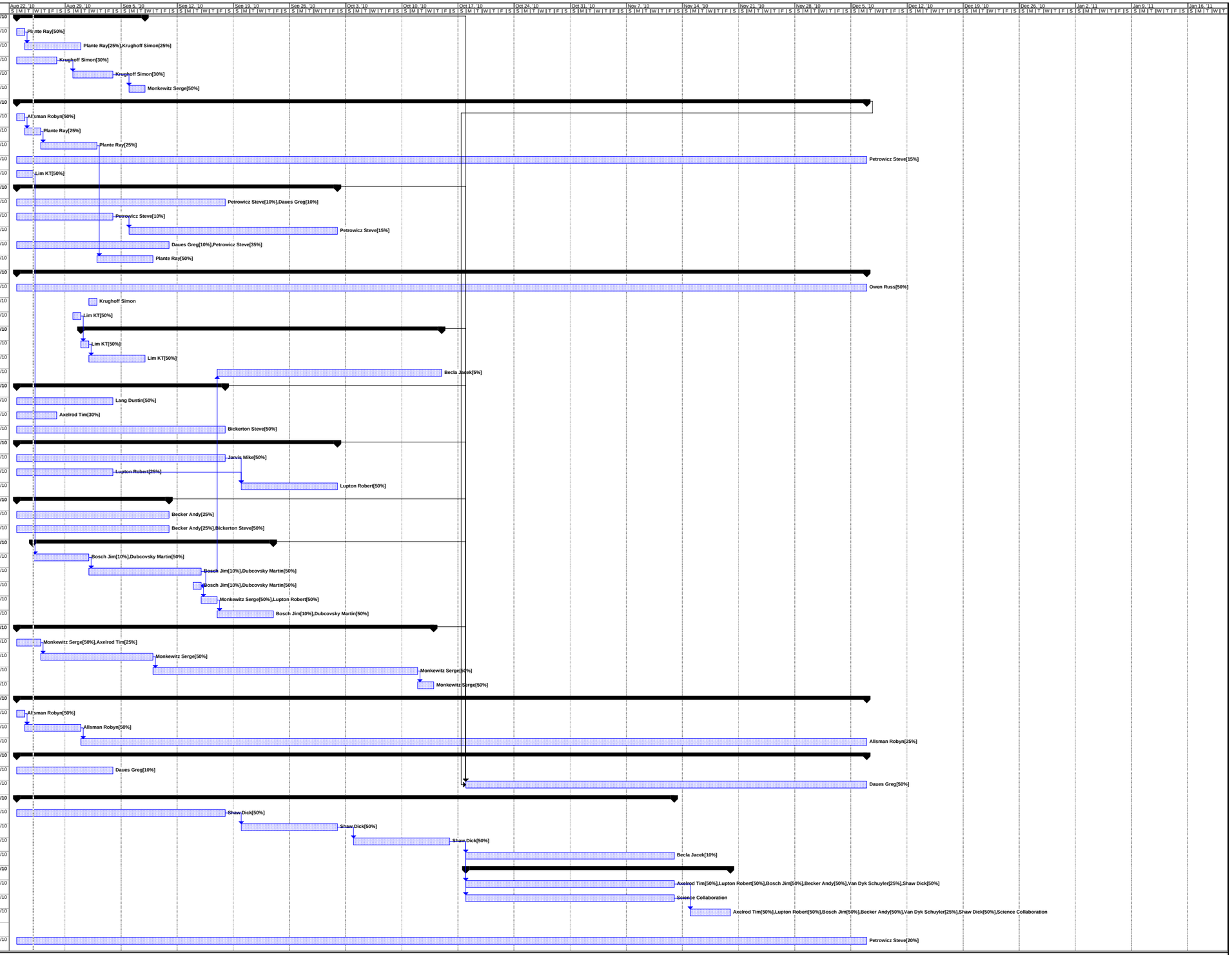
ID	Task Name	Duration	Start	Finish
1	**ImSim Data**	**12 days**	**Mon 8/23/10**	**Tue 9/7/10**
2	Make census of ImSim data at NCSA, request missing visits resend	1 day	Mon 8/23/10	Mon 8/23/10
3	Create ImSim Data Flow for PT 1.1 from all image generation sites	5 days	Tue 8/24/10	Mon 8/30/10
4	Prepare to generate 600 visits in 7 adjacent fields in 15 x 15 field	5 days	Mon 8/23/10	Fri 8/27/10
5	Generate reference galaxy catalog (turn on magnitudes)	5 days	Mon 8/30/10	Fri 9/3/10
6	Import reference catalogs into Gator for comparison to output catalogs	2 days	Mon 9/6/10	Tue 9/7/10
7	**Environment and Tools**	**76 days**	**Mon 8/23/10**	**Mon 12/6/10**
8	TCT approval for environment/tool updates	1 day	Mon 8/23/10	Mon 8/23/10
9	Install, configure, publish environment/tool updates	2 days	Tue 8/24/10	Wed 8/25/10
10	Complete eups release	5 days	Thu 8/26/10	Wed 9/1/10
11	Support trac, svn, systems administration	76 days	Mon 8/23/10	Mon 12/6/10
12	Document Single Stage Tester, Stand-alone, Repeatable Failure scripts	2 days	Mon 8/23/10	Tue 8/24/10
13	**Production-Pipeline-Stage Middleware**	**30 days**	**Mon 8/23/10**	**Fri 10/1/10**
14	Improve Logging performance, reporting, error checking	20 days	Mon 8/23/10	Fri 9/17/10
15	Restore logging to database	10 days	Mon 8/23/10	Fri 9/3/10
16	Update Event Monitor for execution statistics	20 days	Mon 9/6/10	Fri 10/1/10
17	Improve shutdown mechanism for data stack	15 days	Mon 8/23/10	Fri 9/10/10
18	Complete JobOffice implementation to allow integration of Source Association	5 days	Thu 9/2/10	Wed 9/8/10
19	**Data Release Production Architecture and Performance**	**76 days**	**Mon 8/23/10**	**Mon 12/6/10**
20	Improve speed of convolution and warping	76 days	Mon 8/23/10	Mon 12/6/10
21	Implement speed-up for ISR metrics calculation	1 day	Wed 9/1/10	Wed 9/1/10
22	Merge 6 PT1 Pipelines into 2	1 day	Mon 8/30/10	Mon 8/30/10
23	**Data Access Middleware and Database**	**33 days**	**Tue 8/31/10**	**Thu 10/14/10**
24	Subimage and WCS retrieval in Data Butler	1 day	Tue 8/31/10	Tue 8/31/10
25	Pass through comments in FITS headers	5 days	Wed 9/1/10	Tue 9/7/10
26	Database schema updates (incl galaxy photometry)	20 days	Fri 9/17/10	Thu 10/14/10
27	**Point Source Photometry**	**20 days**	**Mon 8/23/10**	**Fri 9/17/10**
28	Split photometry and astrometry catalogs	10 days	Mon 8/23/10	Fri 9/3/10
29	Identify and fix zeropoint calculation error	5 days	Mon 8/23/10	Fri 8/27/10
30	Implement aperture corrections	20 days	Mon 8/23/10	Fri 9/17/10
31	**PSF Estimation**	**30 days**	**Mon 8/23/10**	**Fri 10/1/10**
32	Implement Jarvis PSFs	20 days	Mon 8/23/10	Fri 9/17/10
33	Implement PCA PSFs	10 days	Mon 8/23/10	Fri 9/3/10
34	Change meas_algorithms to support multiple PSFs	10 days	Mon 9/20/10	Fri 10/1/10
35	**Background Determination**	**15 days**	**Mon 8/23/10**	**Fri 9/10/10**
36	Tune mesh size	15 days	Mon 8/23/10	Fri 9/10/10
37	Examine statistics (mean vs median)	15 days	Mon 8/23/10	Fri 9/10/10
38	**Galaxy Photometry**	**22 days**	**Wed 8/25/10**	**Thu 9/23/10**
39	Integrate fitting code with data butler, single stage tester and test locally	5 days	Wed 8/25/10	Tue 8/31/10
40	Determine fitting code failure modes	10 days	Wed 9/1/10	Tue 9/14/10
41	Determine fitting outputs to be stored in database	1 day	Tue 9/14/10	Tue 9/14/10
42	Update Source class for galaxy photometry, incl formatters	2 days	Wed 9/15/10	Thu 9/16/10
43	Write stages for source fitting	5 days	Fri 9/17/10	Thu 9/23/10
44	**Source Association**	**38 days**	**Mon 8/23/10**	**Wed 10/13/10**
45	Define SDQA metrics for Source Association	3 days	Mon 8/23/10	Wed 8/25/10
46	Implement SDQA metrics for Source Association	10 days	Thu 8/26/10	Wed 9/8/10
47	Iteratively improve Source Association algorithm	23 days	Thu 9/9/10	Mon 10/11/10
48	Change Source Association to use inverse variance weighting and calibrated fluxes	2 days	Tue 10/12/10	Wed 10/13/10
49	**Build and Test**	**76 days**	**Mon 8/23/10**	**Mon 12/6/10**
50	Configure continuous integration - release branch	1 day	Mon 8/23/10	Mon 8/23/10
51	Configure continuous integration - development branch	5 days	Tue 8/24/10	Mon 8/30/10
52	Monitor buildbot integration and test	70 days	Tue 8/31/10	Mon 12/6/10
53	**Production Runs**	**76 days**	**Mon 8/23/10**	**Mon 12/6/10**
54	Practice runs on Abe with CFHT night/sub-night	10 days	Mon 8/23/10	Fri 9/3/10
55	Abe runs with ImSim data subsets	36 days	Mon 10/18/10	Mon 12/6/10
56	**User Support**	**60 days**	**Mon 8/23/10**	**Fri 11/12/10**
57	Prepare Data Challenge Handbook	20 days	Mon 8/23/10	Fri 9/17/10
58	Organize DM User Support	10 days	Mon 9/20/10	Fri 10/1/10
59	Define SDQA analysis process	10 days	Mon 10/4/10	Fri 10/15/10
60	Configure/tune catalogs	20 days	Mon 10/18/10	Fri 11/12/10
61	**Data Analysis**	**25 days?**	**Mon 10/18/10**	**Fri 11/19/10**
62	DM Scientist/Engineer data analysis	20 days	Mon 10/18/10	Fri 11/12/10
63	Science Collaboration data analysis	20 days	Mon 10/18/10	Fri 11/12/10
64	Data analysis report	5 days?	Mon 11/15/10	Fri 11/19/10
65				
66	Generate storage proposals	76 days	Mon 8/23/10	Mon 12/6/10



Project: DM DC3b PT 1_1 Plan
Date: Wed 8/25/10

Task | Split | Progress | Milestone | Summary | Project Summary | External Tasks | External Milestone | Deadline