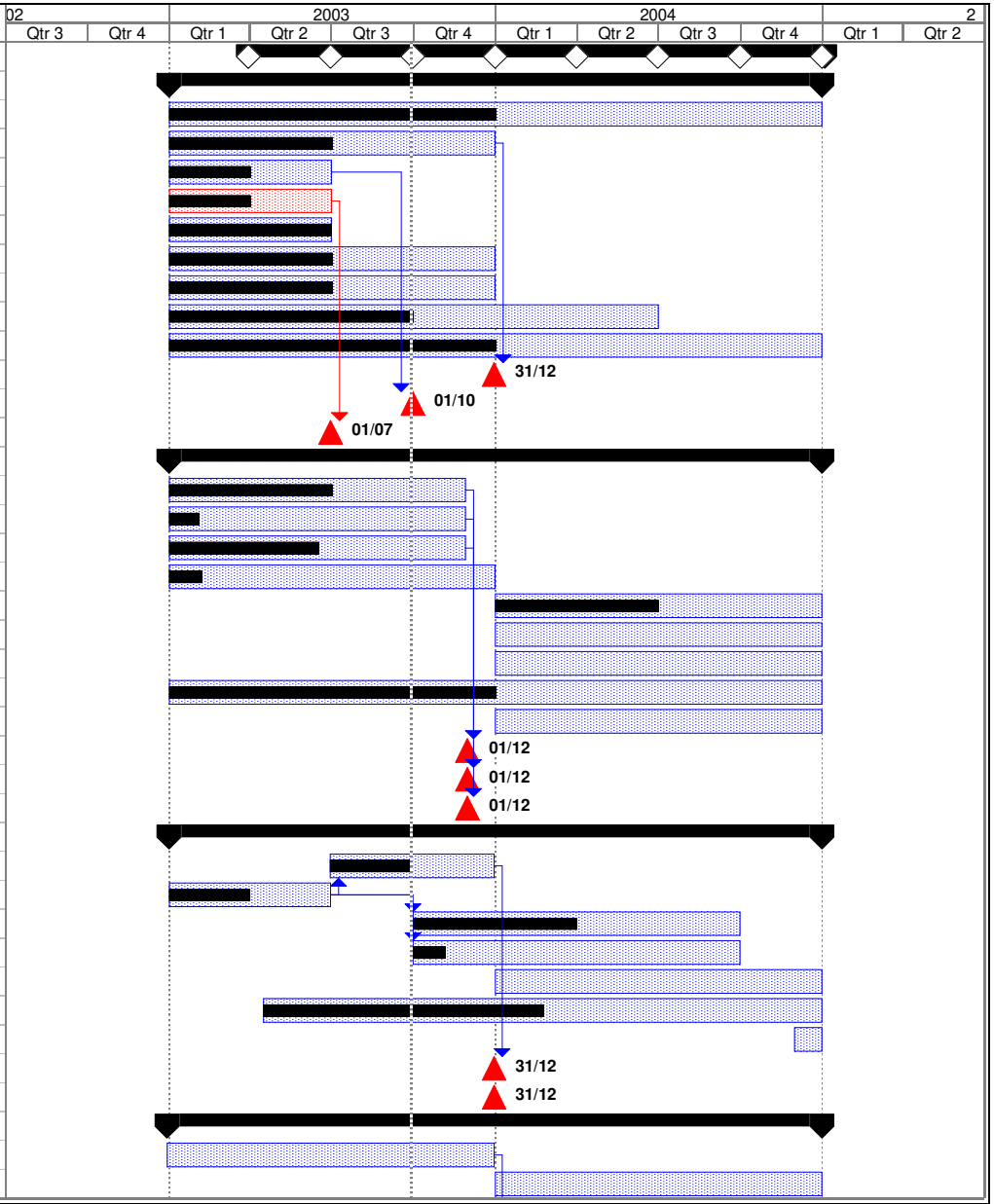
ID		ID	Task Name	Start	Finish
1			**Quarterly Reviews**	**Mon 31/03/03**	**Mon 03/01/05**
10		**1**	**Management and Defenition of Responsibilities**	**Wed 01/01/03**	**Fri 31/12/04**
11		1.1	Report to VISTA, UKIDSS, JAC, ATC, WFAP, GSC	Wed 01/01/03	Fri 31/12/04
12		1.2	Interface Control Document between CASU and JAC	Wed 01/01/03	Wed 31/12/03
13		1.3	Interface Control Document between CASU and WFAU	Wed 01/01/03	Tue 01/07/03
14		1.4	Define data structures and FITS headers	Wed 01/01/03	Tue 01/07/03
15		1.5	Define observing protocols	Wed 01/01/03	Tue 01/07/03
16		1.6	Liaise with UKIDSS and JAC on observing strategy	Wed 01/01/03	Wed 31/12/03
17		1.7	Liaise with UKIDSS and JAC on survey planning	Wed 01/01/03	Wed 31/12/03
18		1.8	Liaise with UKIDSS and JAC on survey progress database	Wed 01/01/03	Thu 01/07/04
19		1.9	System Documentation	Wed 01/01/03	Fri 31/12/04
20		D1a	ICD between CASU and JAC	Wed 31/12/03	Wed 31/12/03
21		D1b	ICD between CASU and WFAU	Wed 01/10/03	Wed 01/10/03
22		D1c	Fits headers and data structures defention document	Tue 01/07/03	Tue 01/07/03
23		**2**	**ESO VISTA software deliverables and documentation**	**Wed 01/01/03**	**Fri 31/12/04**
24		2.1	DFS user requirements document	Wed 01/01/03	Fri 28/11/03
25		2.2	Data reduction specification	Wed 01/01/03	Fri 28/11/03
26		2.3	Calibration plan document for ESO	Wed 01/01/03	Fri 28/11/03
27		2.4	Specification of calibration procedures for ESO	Wed 01/01/03	Wed 31/12/03
28		2.5	Interface Control Document ESO/VPO	Thu 01/01/04	Fri 31/12/04
29		2.6	Instrument specification and interface documents	Thu 01/01/04	Fri 31/12/04
30		2.7	Delivery software modules and ETC	Thu 01/01/04	Fri 31/12/04
31		2.8	Liaise with VISTA IR camera development team	Wed 01/01/03	Fri 31/12/04
32		2.9	Development of DQC measures	Thu 01/01/04	Fri 31/12/04
33		D2a	Calibration plan document	Mon 01/12/03	Mon 01/12/03
34		D2b		Mon 01/12/03	Mon 01/12/03
35		D2c	DFS user requirements document	Mon 01/12/03	Mon 01/12/03
36		**3**	**Pipeline Infrastructure and Progress Monitoring Tools**	**Wed 01/01/03**	**Fri 31/12/04**
37		3.1	Interactive tools for running pipeline	Mon 30/06/03	Tue 30/12/03
38		3.2	High level scripts to interrogate headers	Wed 01/01/03	Mon 30/06/03
39		3.3	Develop automatic progression of results to WWW pages	Wed 01/10/03	Thu 30/09/04
40		3.4	Automate checks to spot failures of pipeline	Wed 01/10/03	Thu 30/09/04
41		3.5	Tools for fixing problem datasets	Thu 01/01/04	Fri 31/12/04
42		3.6	Group documentation for above	Wed 16/04/03	Fri 31/12/04
43		3.7	Reprocessing after bug fixes or improvements to algorithms	Wed 01/12/04	Fri 31/12/04
44		D3a	Deliver pipeline V1.0	Wed 31/12/03	Wed 31/12/03
45		D3b	Deliver documentation for pipeline V1.0	Wed 31/12/03	Wed 31/12/03
46		**4**	**Set up and Manage Raw Science Archive**	**Mon 30/12/02**	**Fri 31/12/04**
47		4.1	Extend current UKIRT archive to cope with WFCAM	Mon 30/12/02	Tue 30/12/03
48		4.2	Ingest and verify WFCAM data	Thu 01/01/04	Fri 31/12/04



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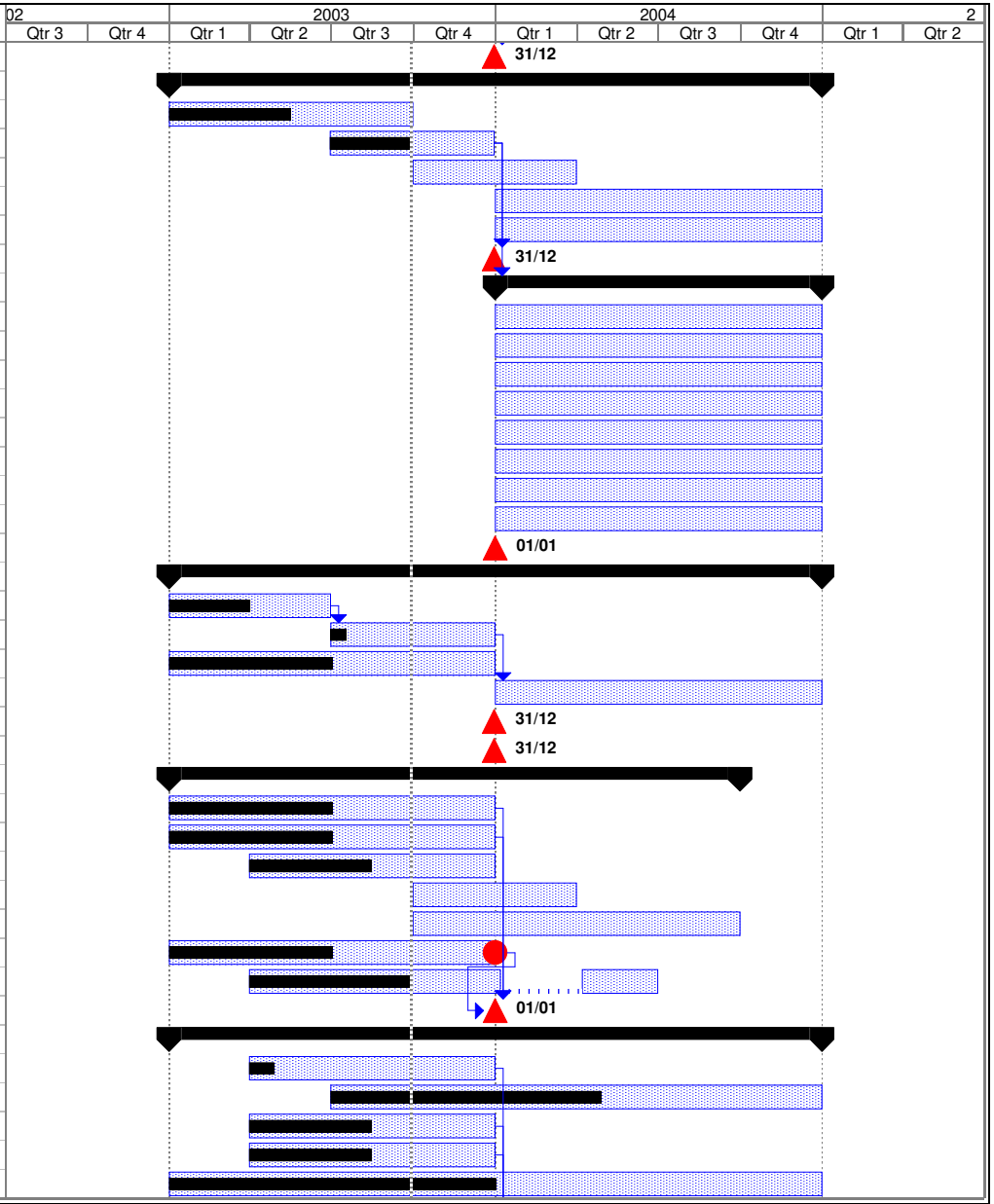
ID		ID	Task Name	Start	Finish
49		D4a	Create Raw Science Archive	Wed 31/12/03	Wed 31/12/03
50		**5**	**Set up and Manage Data Processing System Hardware**	**Wed 01/01/03**	**Fri 31/12/04**
51		5.1	Investigate alternatives (benchmarking, reliability etc)	Wed 01/01/03	Tue 30/09/03
52		5.2	Buy hardware and install software	Mon 30/06/03	Tue 30/12/03
53		5.3	Integration and testing	Wed 01/10/03	Wed 31/03/04
54		5.4	Manage day-to-day, maintenance and upgrades	Thu 01/01/04	Fri 31/12/04
55		5.5	Hardware additions for further data processing system	Thu 01/01/04	Fri 31/12/04
56		D5a	Processing hardware in place	Wed 31/12/03	Wed 31/12/03
57		**6**	**Run Standard Pipeline**	**Thu 01/01/04**	**Fri 31/12/04**
58		6.1	Ingest and verify data	Thu 01/01/04	Fri 31/12/04
59		6.2	Update master calibration frames	Thu 01/01/04	Fri 31/12/04
60		6.3	Monitor detector performance	Thu 01/01/04	Fri 31/12/04
61		6.4	Oversee standd processing	Thu 01/01/04	Fri 31/12/04
62		6.5	Astrometric calibration	Thu 01/01/04	Fri 31/12/04
63		6.6	Photometric calibration	Thu 01/01/04	Fri 31/12/04
64		6.7	Verify science products and monitor DQC measures	Thu 01/01/04	Fri 31/12/04
65		6.8	Monitor product data transfer to WFAU	Thu 01/01/04	Fri 31/12/04
66		D6a	Data flow to WFAU initiated	Thu 01/01/04	Thu 01/01/04
67		**7**	**Development Work for Summit Pipeline**	**Wed 01/01/03**	**Fri 31/12/04**
68		7.1	Interface test pipelines to ORAC-DR	Wed 01/01/03	Mon 30/06/03
69		7.2	Implement WFCAM pipeline at summit	Tue 01/07/03	Wed 31/12/03
70		7.3	Documentation of interface	Wed 01/01/03	Wed 31/12/03
71		7.4	Upgrade and maintain summit pipeline	Thu 01/01/04	Fri 31/12/04
72		D7a	Deliver summit pipeline	Wed 31/12/03	Wed 31/12/03
73		D7b	Deliver summit pipeline documentation	Wed 31/12/03	Wed 31/12/03
74		**8**	**Development and Testing of Standard 2D Processing**	**Wed 01/01/03**	**Thu 30/09/04**
75		8.1	Further development of standard pipeline	Wed 01/01/03	Wed 31/12/03
76		8.2	Liaison with WFCAM development team	Wed 01/01/03	Wed 31/12/03
77		8.3	Partake in planning commissioning observations	Tue 01/04/03	Wed 31/12/03
78		8.4	Participate directly in commissioning	Wed 01/10/03	Wed 31/03/04
79		8.5	Tuning pipeline during commissioning and after	Wed 01/10/03	Thu 30/09/04
80		8.6	Documentation of 2Dprocessing software	Wed 01/01/03	Wed 31/12/03
81		8.7	Comparsion between automated and manual data products	Tue 01/04/03	Wed 30/06/04
82		D8a	Complete 2D processing modules V1.0	Thu 01/01/04	Thu 01/01/04
83		**9**	**Development and Testing of Standard Catalogue Products**	**Wed 01/01/03**	**Fri 31/12/04**
84		9.1	Add in new measures requested	Tue 01/04/03	Wed 31/12/03
85		9.2	Refine astrometric calibration model	Tue 01/07/03	Fri 31/12/04
86		9.3	Generate simulations of expectd data	Tue 01/04/03	Wed 31/12/03
87		9.4	Assess catalogue parameter reliability	Tue 01/04/03	Wed 31/12/03
88		9.5	Intercomparison of catalogue products with other packages	Wed 01/01/03	Fri 31/12/04



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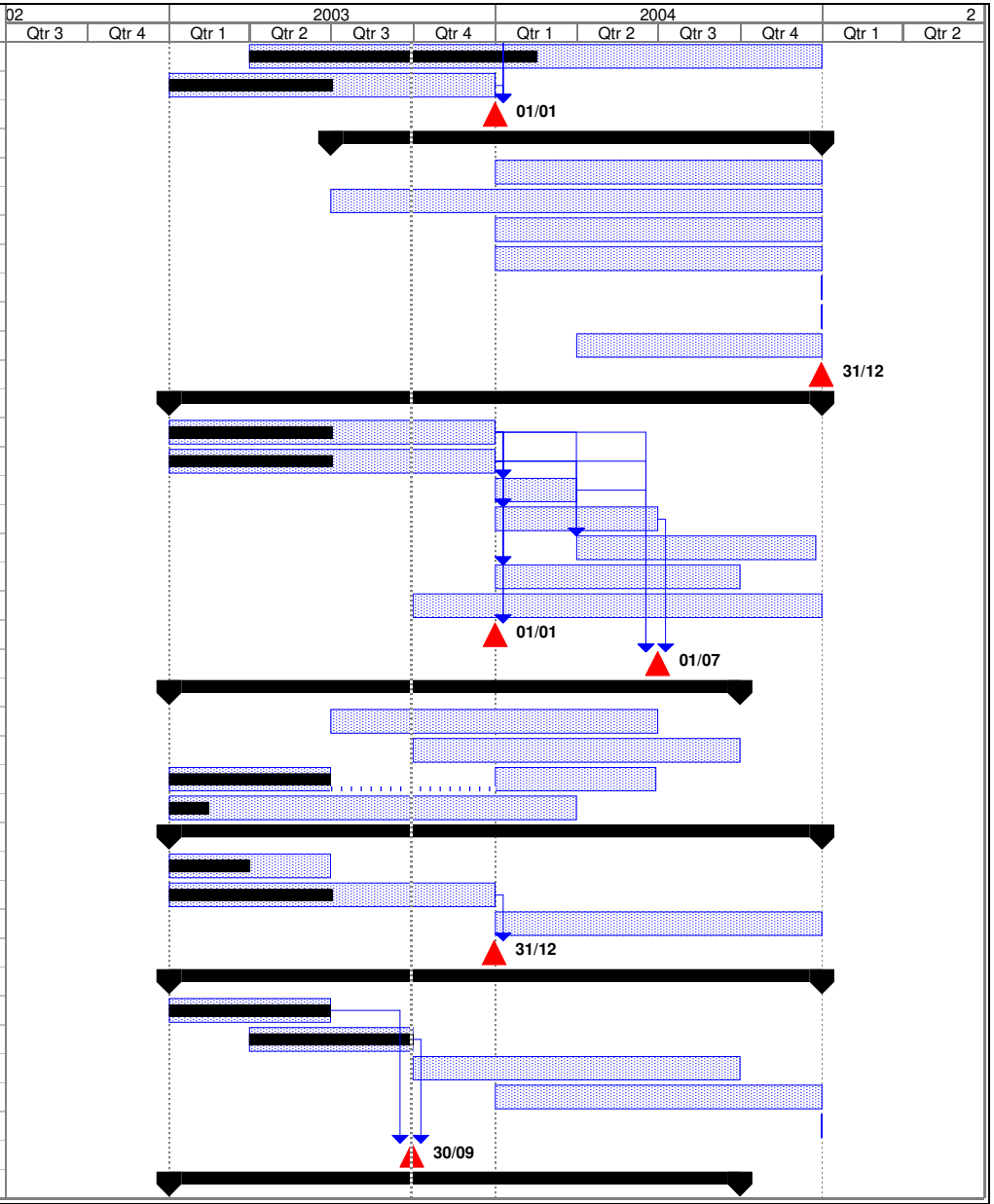
ID		ID	Task Name	Start	Finish
89		9.6	Completeness and error estimates	Tue 01/04/03	Fri 31/12/04
90		9.7	Documentation of catalogue software and products	Wed 01/01/03	Wed 31/12/03
91		D9a	Complete standard catalogue modules V1.0	Thu 01/01/04	Thu 01/01/04
92		**10**	**Set Up, Trial and Run Further Processing Software**	**Tue 01/07/03**	**Fri 31/12/04**
93		10.1	Manage and run further processing stages	Thu 01/01/04	Fri 31/12/04
94		10.2	Development and assessment of PSF options 1,2	Tue 01/07/03	Fri 31/12/04
95		10.3	Develop 1D/2D PSF-deconvolved Sersic profile fits	Thu 01/01/04	Fri 31/12/04
96		10.4	Develop LSBG/nebulosity detection/parameterisation	Thu 01/01/04	Fri 31/12/04
97		10.5	Full iterative profile fitting for stellar images	Fri 31/12/04	Fri 31/12/04
98		10.6	Develop and optimise Bayesian image classification	Fri 31/12/04	Fri 31/12/04
99		10.7	Modelling and simulations of further processing steps	Thu 01/04/04	Fri 31/12/04
100		D10a	Deliver 2D PSF and Sersic fitting applications	Fri 31/12/04	Fri 31/12/04
101		**11**	**Photometric Standards and Calibraion**	**Wed 01/01/03**	**Fri 31/12/04**
102		11.1	Agree on primary standards	Wed 01/01/03	Wed 31/12/03
103		11.2	Choose secondary standard fields	Wed 01/01/03	Wed 31/12/03
104		11.3	Take part in comissioning observations	Thu 01/01/04	Wed 31/03/04
105		11.4	Reduce data, compute zero points and colour equations	Thu 01/01/04	Wed 30/06/04
106		11.5	Update maintain and extend secondary standards system	Thu 01/04/04	Fri 24/12/04
107		11.6	Investigate photometric calibration field systematics	Thu 01/01/04	Thu 30/09/04
108		11.7	Assess extinction monitoring methods	Wed 01/10/03	Fri 31/12/04
109		D11a	Allocate primary and secondary standard stars/fields	Thu 01/01/04	Thu 01/07/04
110		D11b	Photometric calibration and colour equations	Thu 01/07/04	Thu 01/07/04
111		**12**	**Further Development of DQC Measures**	**Wed 01/01/03**	**Thu 30/09/04**
112		12.1	Develop extra systematic noise measures	Tue 01/07/03	Wed 30/06/04
113		12.2	Refine curent measures for WFCAM/VISTA data	Wed 01/10/03	Thu 30/09/04
114		12.3	Implement 2MASS -c.f. for throughput measures	Wed 01/01/03	Mon 28/06/04
115		12.4	Master calibration frames for detector monitoring	Wed 01/01/03	Wed 31/03/04
116		**13**	**Co-located List Driven Photometry**	**Wed 01/01/03**	**Fri 31/12/04**
117		13.1	Test methods for master catalogue generation	Wed 01/01/03	Mon 30/06/03
118		13.2	Develop basic WCS-based list driven photometer	Wed 01/01/03	Wed 31/12/03
119		13.3	Externally driven WCS photometry and define parameter set	Thu 01/01/04	Fri 31/12/04
120		D13a	Deliver list driven photometer	Wed 31/12/03	Wed 31/12/03
121		**14**	**Stacking and Mosaicing**	**Wed 01/01/03**	**Fri 31/12/04**
122	✓	14.1	Develop benchmark simple stacking/mosaicing framework	Wed 01/01/03	Mon 30/06/03
123	✓	14.2	Nearest neighbour algorithm	Tue 01/04/03	Tue 30/09/03
124		14.3	More sophisticated rejection dealing with pixellation	Wed 01/10/03	Thu 30/09/04
125		14.4	Stacking with optimum weighting and defect rejection	Thu 01/01/04	Fri 31/12/04
126		14.5	Advanced stacking/image restoration for variable PSF	Fri 31/12/04	Fri 31/12/04
127		D14	Deliver basic stacker and mosaicer	Tue 30/09/03	Tue 30/09/03
128		**15**	**Continuum Subtraction and Basic Difference Imaging**	**Wed 01/01/03**	**Thu 30/09/04**



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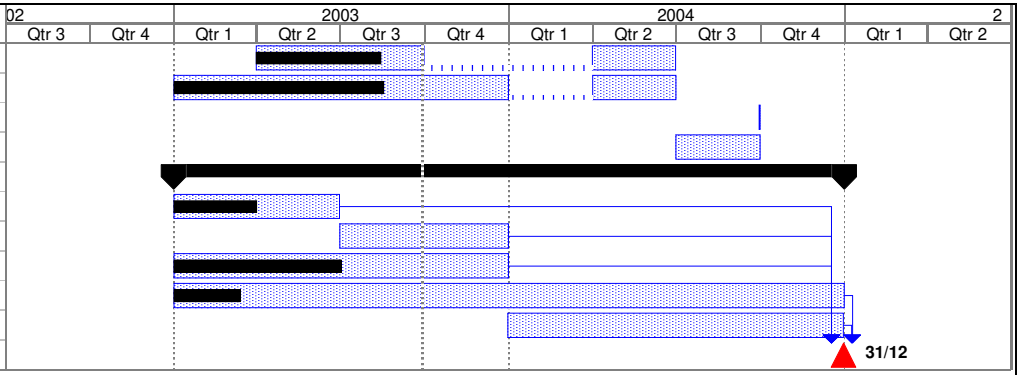
129		15.1	Simple WCS-based subtraction techniques	Tue 01/04/03	Wed 30/06/04
130		15.2	Investigate and apply different interpolation methods	Wed 01/01/03	Thu 01/07/04
131		15.3	Develop adaptive kernel matching option	Thu 30/09/04	Thu 30/09/04
132		15.4	Transient event detection	Thu 01/07/04	Thu 30/09/04
133		**16**	**Interpolation Techniques and PSF Modelling**	**Wed 01/01/03**	**Fri 31/12/04**
134		16.1	Investigate alternative interpolation/PSF schemes	Wed 01/01/03	Mon 30/06/03
135		16.2	Implications for different stacking methods	Tue 01/07/03	Wed 31/12/03
136		16.3	Implications for deriving catalogues and parameters	Wed 01/01/03	Wed 31/12/03
137		16.4	Oversampled PSF generation per detector	Wed 01/01/03	Fri 31/12/04
138		16.5	Develop oversampled spatially varying PSF model	Wed 31/12/03	Thu 30/12/04
139		D16a	Deliver PSF photometer	Fri 31/12/04	Fri 31/12/04



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