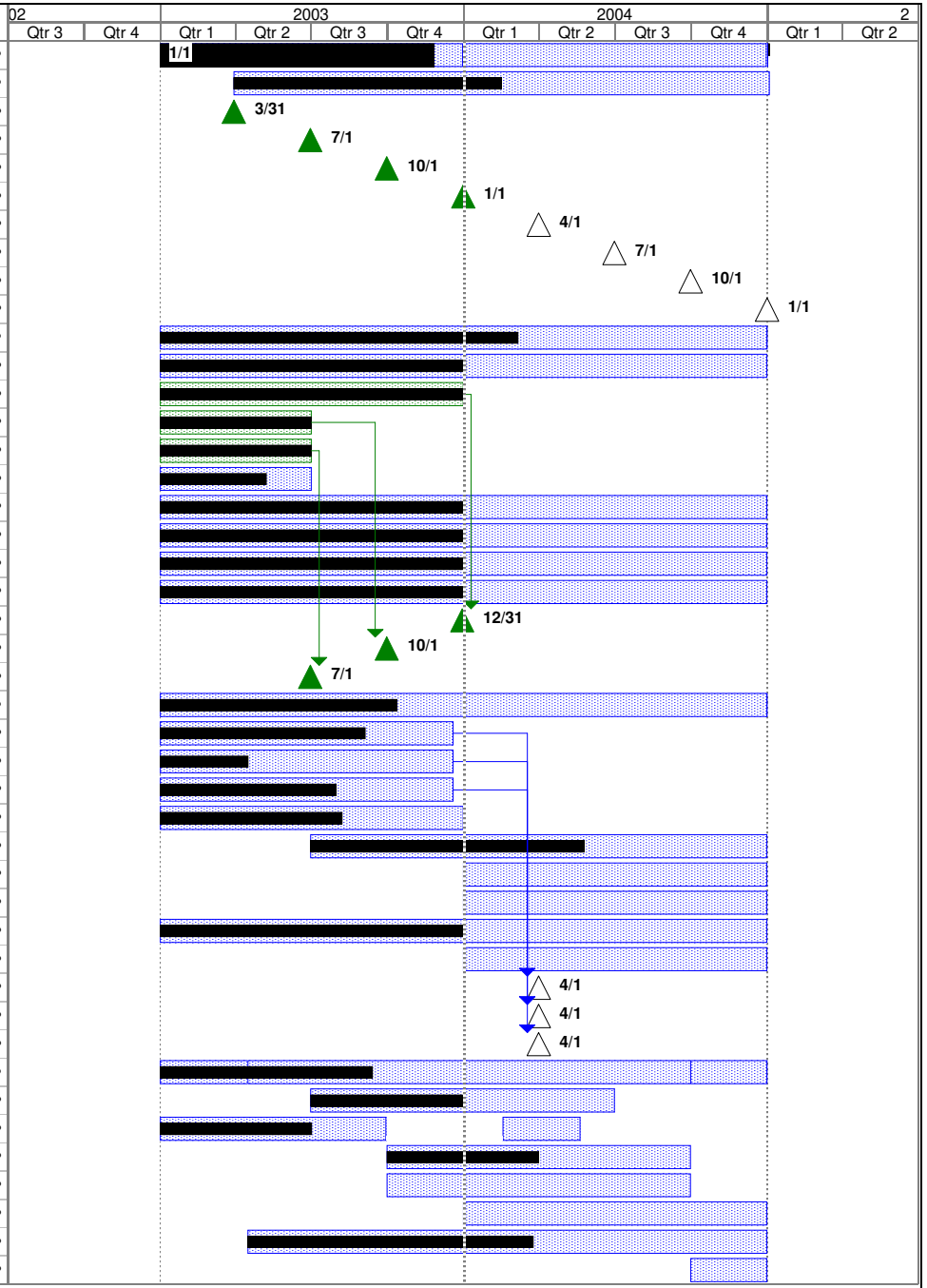
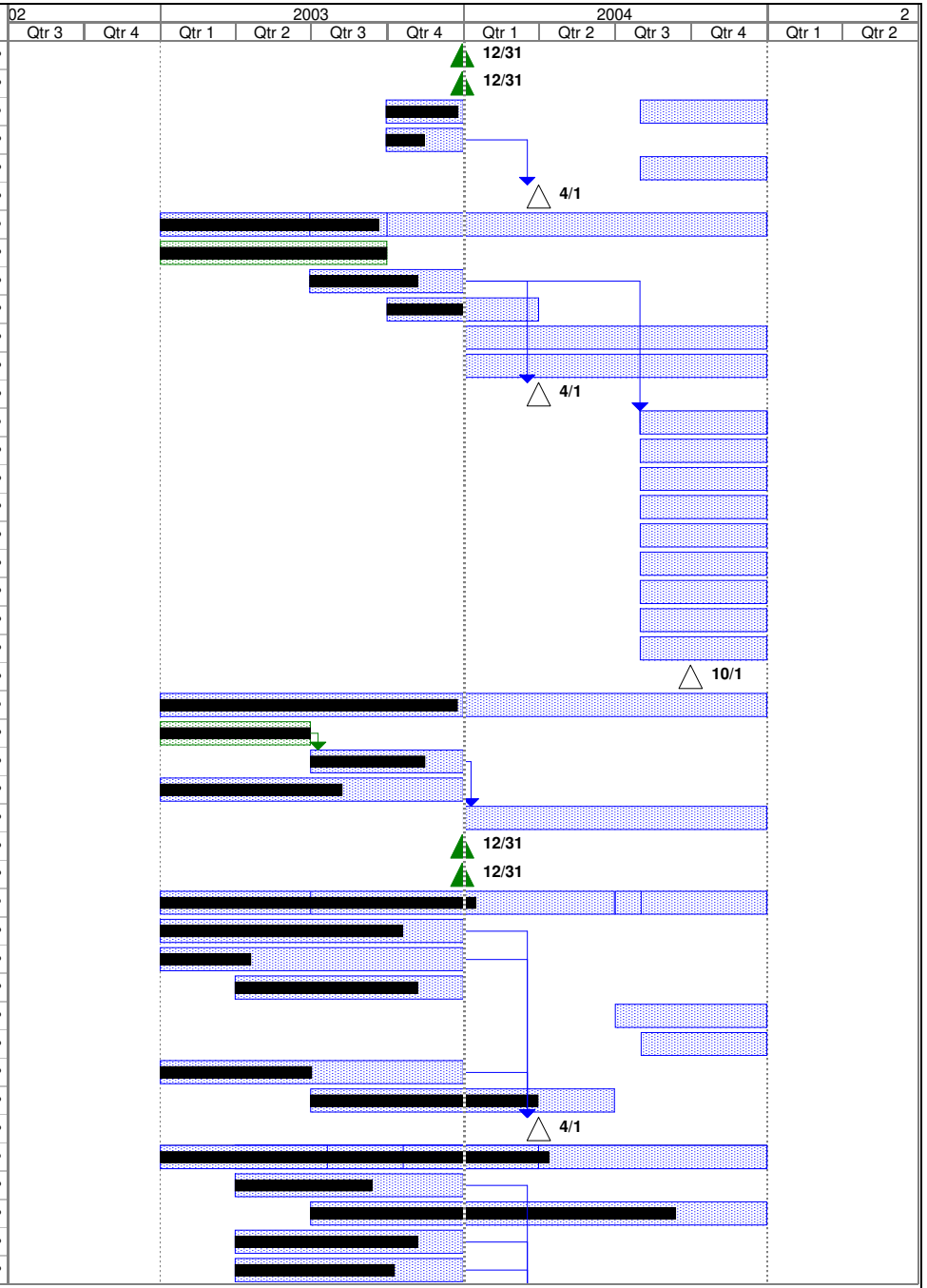
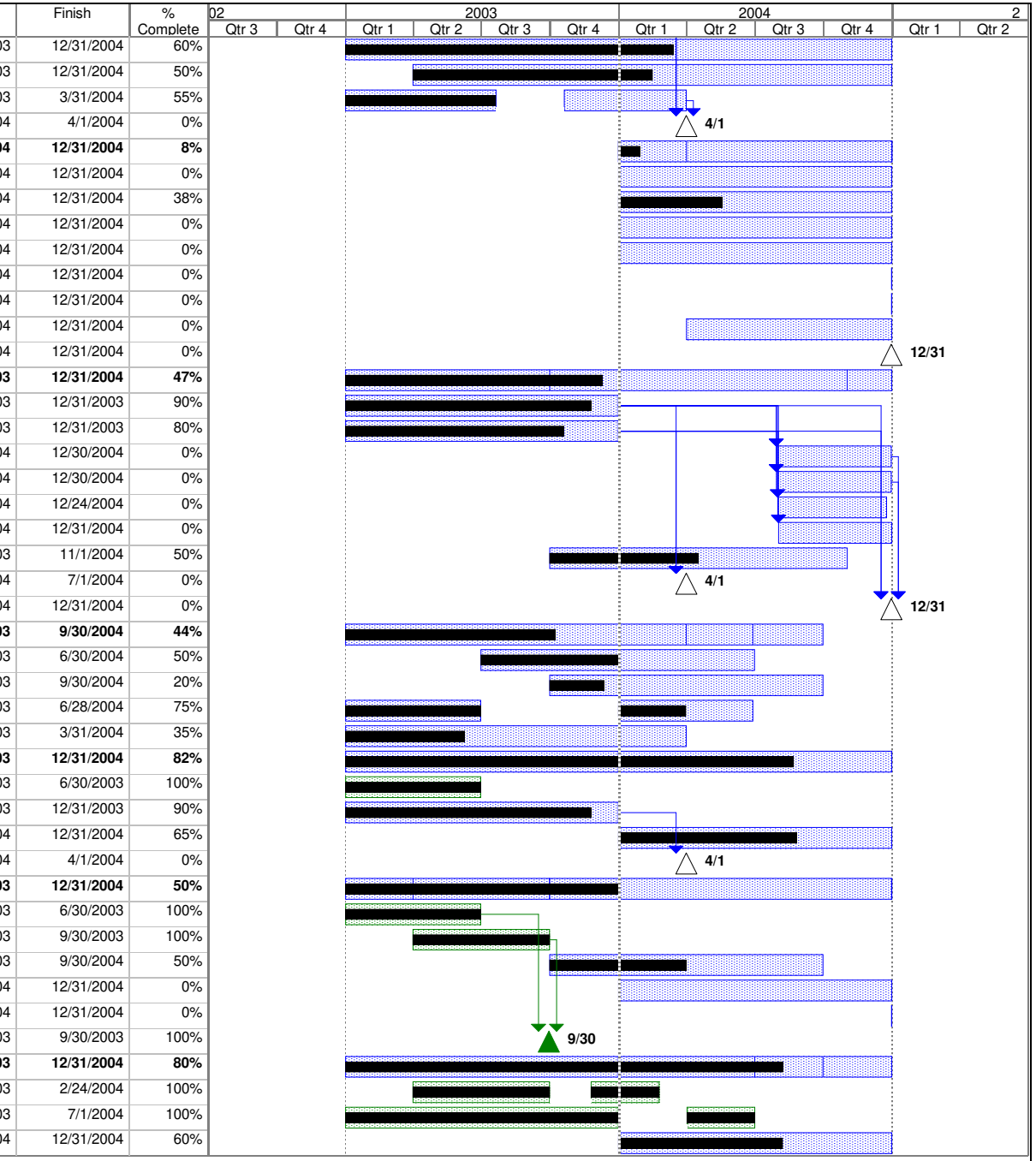
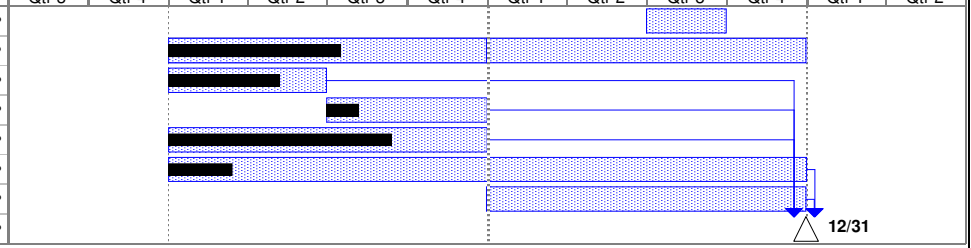
ID	WP	Task Name	Start	Finish	% Complete
0	**0**	**vdfs_prog_20040109**	**1/1/2003**	**1/3/2005**	**45%**
1		**Quarterly Reviews**	**3/31/2003**	**1/3/2005**	**50%**
2		Quarterly Review	3/31/2003	3/31/2003	100%
3		Quarterly Review	7/1/2003	7/1/2003	100%
4		Quarterly Review	10/1/2003	10/1/2003	100%
5		Quarterly Review	1/1/2004	1/1/2004	100%
6		Quarterly Review	4/1/2004	4/1/2004	0%
7		Quarterly Review	7/1/2004	7/1/2004	0%
8		Quarterly Review	10/1/2004	10/1/2004	0%
9		Quarterly Review	1/1/2005	1/3/2005	0%
10	**1**	**Management and Defenition of Responsibilities**	**1/1/2003**	**12/31/2004**	**59%**
11	1.1	Report to VISTA, UKIDSS, JAC, ATC, WFAP, GSC	1/1/2003	12/31/2004	50%
12	1.2	Interface Control Document between CASU and JAC	1/1/2003	12/31/2003	100%
13	1.3	Interface Control Document between CASU and WFAU	1/1/2003	7/1/2003	100%
14	1.4	Define data structures and FITS headers	1/1/2003	7/1/2003	100%
15	1.5	Define observing protocols	1/1/2003	7/1/2003	70%
16	1.6	Liaise with UKIDSS and JAC on observing strategy and survey planning	1/1/2003	12/31/2004	50%
17	1.7	Liaise with UKIDSS and JAC on VDFS products	1/1/2003	12/31/2004	50%
18	1.8	Liaise with UKIDSS and JAC on survey progress database	1/1/2003	12/31/2004	50%
19	1.9	System Documentation	1/1/2003	12/31/2004	50%
20	D1a	ICD between CASU and JAC	12/31/2003	12/31/2003	100%
21	D1b	ICD between CASU and WFAU	10/1/2003	10/1/2003	100%
22	D1c	Fits headers and data structures defention document	7/1/2003	7/1/2003	100%
23	**2**	**ESO VISTA software deliverables and documentation**	**1/1/2003**	**12/31/2004**	**39%**
24	2.1	DFS user requirements document	1/1/2003	12/19/2003	70%
25	2.2	Data reduction specification	1/1/2003	12/19/2003	30%
26	2.3	Calibration plan document for ESO	1/1/2003	12/19/2003	60%
27	2.4	Specification of calibration procedures for ESO	1/1/2003	12/31/2003	60%
28	2.5	Interface Control Document ESO/VPO	7/1/2003	12/31/2004	60%
29	2.6	Instrument specification and interface documents	1/1/2004	12/31/2004	0%
30	2.7	Delivery software modules and ETC	1/1/2004	12/31/2004	0%
31	2.8	Liaise with VISTA IR camera development team	1/1/2003	12/31/2004	50%
32	2.9	Development of DQC measures	1/1/2004	12/31/2004	0%
33	D2a	Calibration plan document	4/1/2004	4/1/2004	0%
34	D2b	Data Interface Dictionary	4/1/2004	4/1/2004	0%
35	D2c	DFS user requirements document	4/1/2004	4/1/2004	0%
36	**3**	**Pipeline Infrastructure and Progress Monitoring Tools**	**1/1/2003**	**12/31/2004**	**35%**
37	3.1	Interactive tools for running pipeline	7/1/2003	6/30/2004	50%
38	3.2	High level scripts to interrogate headers	1/1/2003	5/20/2004	50%
39	3.3	Develop automatic progression of results to WWW pages	10/1/2003	9/30/2004	50%
40	3.4	Automate checks to spot failures of pipeline	10/1/2003	9/30/2004	0%
41	3.5	Tools for fixing problem datasets	1/1/2004	12/31/2004	0%
42	3.6	Group documentation for above	4/16/2003	12/31/2004	55%
43	3.7	Reprocessing after bug fixes or improvements to algorithms	10/1/2004	12/31/2004	0%



ID	WP	Task Name	Start	Finish	% Complete
44	D3a	Deliver pipeline V1.0	12/31/2003	12/31/2003	0%
45	D3b	Deliver documentation for pipeline V1.0	12/31/2003	12/31/2003	0%
46	**4**	**Set up and Manage Raw Science Archive**	**9/30/2003**	**12/31/2004**	**19%**
47	4.1	Extend current UKIRT archive to cope with WFCAM	9/30/2003	12/31/2003	50%
48	4.2	Ingest and verify WFCAM data	8/1/2004	12/31/2004	0%
49	D4a	Create Raw Science Archive	4/1/2004	4/1/2004	0%
50	**5**	**Set up and Manage Data Processing System Hardware**	**1/1/2003**	**12/31/2004**	**36%**
51	5.1	Investigate alternatives (benchmarking, reliability etc)	1/1/2003	9/30/2003	100%
52	5.2	Buy hardware and install software	6/30/2003	12/31/2003	70%
53	5.3	Integration and testing	10/1/2003	3/31/2004	50%
54	5.4	Manage day-to-day, maintenance and upgrades	1/1/2004	12/31/2004	0%
55	5.5	Hardware additions for further data processing system	1/1/2004	12/31/2004	0%
56	D5a	Processing hardware in place	4/1/2004	4/1/2004	0%
57	**6**	**Run Standard Pipeline**	**8/1/2004**	**12/31/2004**	**0%**
58	6.1	Ingest and verify data	8/1/2004	12/31/2004	0%
59	6.2	Update master calibration frames	8/1/2004	12/31/2004	0%
60	6.3	Monitor detector performance	8/1/2004	12/31/2004	0%
61	6.4	Oversee standd processing	8/1/2004	12/31/2004	0%
62	6.5	Astrometric calibration	8/1/2004	12/31/2004	0%
63	6.6	Photometric calibration	8/1/2004	12/31/2004	0%
64	6.7	Verify science products and monitor DQC measures	8/1/2004	12/31/2004	0%
65	6.8	Monitor product data transfer to WFAU	8/1/2004	12/31/2004	0%
66	D6a	Data flow to WFAU initiated	10/1/2004	10/1/2004	0%
67	**7**	**Development Work for Summit Pipeline**	**1/1/2003**	**12/31/2004**	**49%**
68	7.1	Interface test pipelines to ORAC-DR	1/1/2003	6/30/2003	100%
69	7.2	Implement WFCAM pipeline at summit	7/1/2003	12/31/2003	75%
70	7.3	Documentation of interface	1/1/2003	12/31/2003	60%
71	7.4	Upgrade and maintain summit pipeline	1/1/2004	12/31/2004	0%
72	D7a	Deliver summit pipeline	12/31/2003	12/31/2003	0%
73	D7b	Deliver summit pipeline documentation	12/31/2003	12/31/2003	0%
74	**8**	**Development and Testing of Standard 2D Processing**	**1/1/2003**	**12/31/2004**	**52%**
75	8.1	Further development of standard pipeline	1/1/2003	12/31/2003	80%
76	8.2	Liaison with WFCAM development team	1/1/2003	12/31/2003	30%
77	8.3	Partake in planning commissioning observations	4/1/2003	12/31/2003	80%
78	8.4	Participate directly in commissioning	7/2/2004	12/31/2004	0%
79	8.5	Tuning pipeline during commissioning and after	8/2/2004	12/31/2004	0%
80	8.6	Documentation of 2Dprocessing software	1/1/2003	12/31/2003	50%
81	8.7	Comparison between automated and manual datasets	7/1/2003	6/30/2004	75%
82	D8a	Complete 2D processing modules V1.0	4/1/2004	4/1/2004	0%
83	**9**	**Development and Testing of Standard Catalogue Products**	**1/1/2003**	**12/31/2004**	**64%**
84	9.1	Add in new measures requested	4/1/2003	12/31/2003	60%
85	9.2	Refine astrometric calibration model	7/1/2003	12/31/2004	80%
86	9.3	Generate simulations of expected data	4/1/2003	12/31/2003	80%
87	9.4	Assess catalogue parameter reliability	4/1/2003	12/31/2003	70%



ID	WP	Task Name	Start	Finish	% Complete
88	9.5	Intercomparison of catalogue products with other packages	1/1/2003	12/31/2004	60%
89	9.6	Completeness and error estimates	4/1/2003	12/31/2004	50%
90	9.7	Documentation of catalogue software and products	1/1/2003	3/31/2004	55%
91	D9a	Complete standard catalogue modules V1.0	4/1/2004	4/1/2004	0%
92	**10**	**Set Up, Trial and Run Further Processing Software**	**1/1/2004**	**12/31/2004**	**8%**
93	10.1	Manage and run further processing stages	1/1/2004	12/31/2004	0%
94	10.2	Development and assessment of PSF options 1,2	1/1/2004	12/31/2004	38%
95	10.3	Develop 1D/2D PSF-deconvolved Sersic profile fits	1/1/2004	12/31/2004	0%
96	10.4	Develop LSBG/nebulosity detection/parameterisation	1/1/2004	12/31/2004	0%
97	10.5	Full iterative profile fitting for stellar images	12/31/2004	12/31/2004	0%
98	10.6	Develop and optimise Bayesian image classification	12/31/2004	12/31/2004	0%
99	10.7	Modelling and simulations of further processing steps	4/1/2004	12/31/2004	0%
100	D10a	Deliver 2D PSF and Sersic fitting applications	12/31/2004	12/31/2004	0%
101	**11**	**Photometric Standards and Calibraion**	**1/1/2003**	**12/31/2004**	**47%**
102	11.1	Agree on primary standards	1/1/2003	12/31/2003	90%
103	11.2	Choose secondary standard fields	1/1/2003	12/31/2003	80%
104	11.3	Take part in comissioning observations	7/30/2004	12/30/2004	0%
105	11.4	Reduce data, compute zero points and colour equations	7/30/2004	12/30/2004	0%
106	11.5	Update maintain and extend secondary standards system	8/1/2004	12/24/2004	0%
107	11.6	Investigate photometric calibration field systematics	8/2/2004	12/31/2004	0%
108	11.7	Assess extinction monitoring methods	10/1/2003	11/1/2004	50%
109	D11a	Allocate primary and secondary standard stars/fields	4/1/2004	7/1/2004	0%
110	D11b	Photometric calibration and colour equations	12/31/2004	12/31/2004	0%
111	**12**	**Further Development of DQC Measures**	**1/1/2003**	**9/30/2004**	**44%**
112	12.1	Develop extra systematic noise measures	7/1/2003	6/30/2004	50%
113	12.2	Refine curent measures for WFCAM/VISTA data	10/1/2003	9/30/2004	20%
114	12.3	Implement 2MASS -c.f. for throughput measures	1/1/2003	6/28/2004	75%
115	12.4	Master calibration frames for detector monitoring	1/1/2003	3/31/2004	35%
116	**13**	**Co-located List Driven Photometry**	**1/1/2003**	**12/31/2004**	**82%**
117	13.1	Test methods for master catalogue generation	1/1/2003	6/30/2003	100%
118	13.2	Develop basic WCS-based list driven photometer	1/1/2003	12/31/2003	90%
119	13.3	Externally driven WCS photometry and define parameter set	1/1/2004	12/31/2004	65%
120	D13a	Deliver list driven photometer	4/1/2004	4/1/2004	0%
121	**14**	**Stacking and Mosaicing**	**1/1/2003**	**12/31/2004**	**50%**
122	14.1	Develop benchmark simple stacking/mosaicing framework	1/1/2003	6/30/2003	100%
123	14.2	Nearest neighbour algorithm	4/1/2003	9/30/2003	100%
124	14.3	More sophisticated rejection dealing with pixellation	10/1/2003	9/30/2004	50%
125	14.4	Stacking with optimum weighting and defect rejection	1/1/2004	12/31/2004	0%
126	14.5	Advanced stacking/image restoration for variable PSF	12/31/2004	12/31/2004	0%
127	D14	Deliver basic stacker and mosaicer	9/30/2003	9/30/2003	100%
128	**15**	**Continuum Subtraction and Basic Difference Imaging**	**1/1/2003**	**12/31/2004**	**80%**
129	15.1	Simple WCS-based subtraction techniques	4/1/2003	2/24/2004	100%
130	15.2	Investigate and apply different interpolation methods	1/1/2003	7/1/2004	100%
131	15.3	Develop adaptive kernel matching option	1/1/2004	12/31/2004	60%



ID	WP	Task Name	Start	Finish	% Complete
132	15.4	Transient event detection	7/1/2004	9/30/2004	0%
133	**16**	**Interpolation Techniques and PSF Modelling**	**1/1/2003**	**12/31/2004**	**27%**
134	16.1	Investigate alternative interpolation/PSF schemes	1/1/2003	6/30/2003	70%
135	16.2	Implications for different stacking methods	7/1/2003	12/31/2003	20%
136	16.3	Implications for deriving catalogues and parameters	1/1/2003	12/31/2003	70%
137	16.4	Oversampled PSF generation per detector	1/1/2003	12/31/2004	10%
138	16.5	Develop oversampled spatially varying PSF model	12/31/2003	12/30/2004	0%
139	D16a	Deliver PSF photometer	12/31/2004	12/31/2004	0%