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WP	CASU WP name /sub_task / 05Q2m2 deliverable	Staff	Vers			og		Textual Summary
#				05Q1	Apr	May	Jun	
1	Management and definition of project responsibilities							
1.1	report to VISTA, UKIDSS, JAC, ATC, GSC	all	V2-V5	17	19	22		
	meeting minutes, monthly reports, quarterly review/reports & planning, VDUC meetings, JAC telecons; prepare for and attend ESO VDFS FDR update meeting							Organized and attended ESO FDR+ meeting, distributed notes and actioned specific items to project members. held two CASU meetings. attended UKIRT board meeting.
1.2	interface control document between CASU and JAC	MJI	V1					completed
1.3a	interface control document between CASU and WFAU (WFCAM)	MJI	V1					completed
1.3b	interface control document between CASU and WFAU (VISTA)		V4	0	0	0		
	liase with WFAU for design of VISTA ICD							no progress
1.4a	define WFCAM data structures and FITS headers	MJI, JRL, PSB	V1					completed
1.4b	update proposed VISTA FITS headers as necessary	PSB	V4	10	10	20		
	monitor and update proposed VISTA FITS headers							Presented current state of FITS to DICB chair at FDR+. Waiting for ESO feedback and new issues of instrument/TCS dictionaries
1.5a	define WFCAM observing protocols	STH	V2	55	60	60		
	monitor and update MSB guidelines							awaiting detailed analysis of first processing runs
1.5b	define VISTA observing protocols	PSB	V4	15	15	20		· · · · · ·
	liaise with development team	-		-	-			distributed updates to data types (in particular HOWFS) following FDR+ and instigated discussion on type of calibration observations
1.6a	liaise with UKIDSS&JAC on WFCAM obs strategy, surveys planning	STH	V2	40	50	50		
	liaise and monitor progress							awaiting detailed analysis of first processing runs
1.6b	liaise with Proj. Sci. on VISTA observing strategy & survey planning	PSB	V2-V3	17	19	22		
	liaise and monitor progress							Informal discussions on status of detectors and project in general. Input to latest data- rate description
1.7a	liaise with VDUC on VDFS products for WFCAM	STH, MJI, JRL	V2	50	55	55		
	liaise and monitor progress. finalise reports on comm-I							no progress
1.7b	liaise with VDUC on VDFS products for VISTA	MJI, STH	V4	17	19	22		
	liaise and monitor progress. assess and prioritise work required for extra UK VDFS products. begin functional specification for UK review (see VDMT A0501-05)							no progress
1.8a	liaise with UKIDSS and JAC on survey progress DB (WFCAM)	JRL	V2	50	50	50		
	maintain OMP database mirror to be used with survey progress database, incl. user interface							OMP database mirror maintained
1.8b	liaise with VDUC and ESO on survey progress DB (VISTA)		V3-V5	0	0	0		on hold
1.9	system documentation	DWE, EGS,	V2-V5	17	19	22		
	update and maintain web pages of system docs							updated and maintained WWW pages, trialled Plone
1.10	VST processing preparation	EGS, MJI	V3	0	0	10		
	monitor, assess and respond to VST proposal feedback	,						held discussions with core and secondary programme Pis
2	ESO VISTA software interface deliverables and documentation	1						
2.1	DFS impact document	PSB	V2	70	70	80		
<del></del>	respond to RIX, update document		'-					incorporated current data-rate info from JPE with minor imporvements (inclusion of
		DOD	\/0	70	70	00		FITS header size). Presented to FDR+, waiting further ESO feedback.
2.2	Calibration Plan document	PSB	V2	70	70	80		
	respond to RIX, update document		<b></b>					presented to FDR+, incorp. some feedback, awaiting further ESO feedback
2.3	Data Reduction Library Design document	PSB	V2	70	70	80		
	respond to RIX, update document							presented to FDR+, incorp. some feedback, copy to chair of DICB, awaiting further ESO feedback
2.4	Data Reduction Library							subsumed into 2.3
2.5	ICD ESO/VPO	PSB	V2	0	5	5		

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	update FITS header doc and DID/DIC and data dictionary files						waiting DSR proposal (ESO) full inst & TCS dics (ATC)
2.6	Instrument specification and interface documents	PSB	V3	0	0	6	
	develop integration tests in CPL & QFITSenvironment						short workshop on CPL at FDR+, new CPL issue and docs
2.7	Delivery software modules for exposure time calculator	STH, PSB	V3	20	20	30	
	update ETC doc. produce C versions of ETC software modules						commenced translation of perl code into C
2.8	liaise with VISTA IR camera development team	PSB	V2-V5	8	19	25	·
	continue liaising with VISAT IR camera development team						FITS issues (see above). test state of current camera software being run at RAL,
							discussed outstanding issues include. generation of first-guess WCS
2.9	Development of DQC measures	PSB	V2,V4	0	5	5	
	respond to RIXs, update QC measures as required						no progress
2.10	Documents for software modules	PSB	V4-V5	0	0	0	
3	Pipeline infrastructure and pipeline progress monitoring tools						
3.1	interactive tools for running pipeline	JRL	V1-V2	60	70	75	
	develop tools in light of comm-II and document						improvements to pipeline scripts to enable better control: restart & preview ability
3.2	high level scripts to interrogate headers	STH	V1,V3	50	50	55	
	update header interrogation scripts and test		'				software running to enable DQC monitoring of processed data
3.3	automatic progression of results to web pages	MR	V2	50	50	50	9
	prototype a web-based pipeline progress system	+		- 55	- 33		no progress
3.4	automatic checks to spot failure of pipeline	STH, MR	V2	0	0	20	prog. 000
	automatic checke to spot families of pipoline	0111, 11111	'-	Ĭ			
	develop scripts to pick out problem datasets						many more error traps now in place following testing and retesting, automatic checking
							for incomplete images enabled
2.50	Tools for fixing problem datasets (WFCAM)	JRL	V2	20	25	25	is instripted inages chastes
3.5a	develop tools to handle problems in comm-II data	JKL	V2	20	25		no nvogrago
0.51	· · · · · · · · · · · · · · · · · · ·		) / 4 ) /F	_	_		no progress
3.5b	Tools for fixing problem datasets (VISTA)	OTIL IDI	V4-V5	0	0	0	on hold
3.6	group documentation on pipeline infrastructure  stress test documentation and update as necessary	STH, JRL	V1-V2	60	60	60	
	, ,						minor document updates implemented
3.7a	Oversee reprocessing WFCAM data after bug fixes/improvements reprocess science data in comm-l	MR	V3-V5	0	30	30	<u> </u>
	,						all comm-I data reprocessed and transferred to WFAU
3.7b	Oversee reprocessing VISTA data after bug fixes/improvements		V5	0	0	0	on hold
4	Set up and manage raw science archive						
4.1	extend UKIRT archive to cope with WFCAM data	JRL, MR	V2	50	55	65	
	finish creating version 1 of WFCAM raw data archive. initiate manage and monitor WFCAM - ESO raw data transfers						SV data spanning 1-16th April transferred to ESO. UKIRT WFCAM raw data archive
	WFCAIN - ESO TAW data transfers						now running and supplying data
4.2a	Ingest and verify WFCAM data	MR, MJI	V3-V5	10	19	22	
	ingest and verify phase II commissioning and SV data						all WFCAM data ingested and verified up to May 12th. Missing files retrieved.
4.2b	Ingest and verify VISTA data		V4-V5	0	0		on hold
5	Set up and manage data processing system hardware						
5.1	Investigate alternatives (benchmarking, reliability etc)	MJI, PSB, JMI	V1	100	100		completed
5.2	buy hardware and install	PSB, JMI, MJI	V1	50	100		completed
5.3	integrating and testing	PSB, JMI	V1	50	100		completed
5.4	Manage day-to-day maintenance and upgrades	PSB, JMI	V2-V5	17	19	22	
	continue maintenance and upgrade programme	<u> </u>					rebuild of one failed raid array and system disk
5.5	Hardware additions for further processing system	1	V2-V5	0	0	0	
	scope need for extra hardware for further processing	MJI					no need at present
6	Run standard pipeline	1 22					
6.1a	Update WFCAM master calibration frames	MJI, JRL	V2-V5	0	3	6	
5.74	ingest and verify WFCAM on-sky test data		12 13				first pass SV calibrations generated
6.2a	Monitor detector performance WFCAM	JRL	V2-V5	0	3	6	mor page of valibrations generated
J.2a	monitor with comm-I, comm-II and SV data	- OILL	V Z - V J	J	3		initial study of flats and darks started
	mornor mar committy commit it and o'v data						Initial Study of Hats and darks Started

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6.3a	Oversee standard processing WFCAM	MR	V2-V5	0	3	6	
	oversee SV data						processing of SV data continues
6.4a	Astrometric calibration WFCAM	MJI	V2-V5	0	3	6	
	calibrate comm-I, comm-II & SV data						all data calib rated to 2mass
6.5a	Photometric Calibration WFCAM	STH	V2-V5	0	3	6	
0.00	calibrate using 2mass, then with WFCAM system	0111	12 10				all data calibrated to 2mass
6.6a	Verify Science products and monitor DQC measures WFCAM	EGS, MJI	V2-V5	0	3	6	dii data sampated to zmass
0.0a	assess comm-I, comm-II and SV data	LGG, IVIGI	VZ-V3	- 0	- 3	-	assessment of SV data ongoing
6.7	,	MD MII	V2 VE	0	3	6	assessment of 5v data ongoing
6.7	Monitor data product transfer to WFAU  continue data transfer to WFAU and monitor	MR, MJI	V2-V5	U	3	0	CV pichto 1/4/05 and 7/4/05 transformed to MEAL
0.0-		MD	\ (O \ (E				SV nights 1/4/05 and 7/4/05 transferred to WFAU
6.8a	Reprocess WFCAM data	MR	V3-V5	0	3	6	
	reprocess if major bug fixes						reprocessing as required
7	Development work for summit pipeline						
7.1a	Interface test pipelines in ORAC-DR	JRL	V1	100	100	100	completed
7.1b	Interface test pipelines to VISTA summit DR	JRL	V4	0	0	0	on hold
7.2a	implement WFCAM pipeline at summit	JRL	V1-V2	75	75	80	
	demonstrate catalogue and non-cat DQCs; develop recipes for dealing with crosstalk, non-linearity, reset anomalies and persistence, tackle speed issues						further work done on speeding up the summit pipeline. faster decurtaining routine is now available. Additions to the DQC logging made
7.2h	Implement \/ICTA pipeline at aummit	JRL	V4	0	0	0	on hold
7.2b	Implement VISTA pipeline at summit				-		Off floid
7.3a	documentation for ORAC-DR interface update and deliver documentation as development proceeds	JRL	V1-V2	60	60	60	
L						_	no further progress
7.3b	documentation for interface VISTA	JRL	V3-V4	0	0	0	on hold
7.4a	upgrade and maintain summit pipeline WFCAM	JRL	V2-V5	17	19	22	
	update & maintain, include commissioning enhancements						bug fixes implemented as found
7.4b	upgrade and maintain summit pipeline VISTA	JRL	V4-V5	0	0	0	on hold
8	Development and testing of standard 2d processing						
8.1a	further development of standard pipeline for WFCAM	JRL	V1-V2	80	80	80	
jo. 1a							
0.18	finish implementing new version of imcore to include full param set						modifications made to accommodate comm-II data. New sky subtraction algorithm is in place
	, ,	JRI	V3	0	0	0	place
8.1b	development of VISTA specific packages	JRL JRI	V3	0		0	, ,
	development of VISTA specific packages liaison with WFCAM development team	JRL JRL	V3 V1-V2	0		0 22	place on hold
8.1b	development of VISTA specific packages						place
8.1b	development of VISTA specific packages liaison with WFCAM development team continue discussion on reset anomaly, crosstalk and linearity; assess science array				19		place on hold
8.1b 8.2a	development of VISTA specific packages liaison with WFCAM development team continue discussion on reset anomaly, crosstalk and linearity; assess science array test data for above problems and report	JRL	V1-V2	8	19	22	place on hold nothing to report
8.1b 8.2a 8.2b	development of VISTA specific packages liaison with WFCAM development team continue discussion on reset anomaly, crosstalk and linearity; assess science array test data for above problems and report liaison with Project Scientist & VISTA development team assess any new detector engineering test data	JRL	V1-V2	8	19	22	place on hold  nothing to report  nothing to report
8.1b 8.2a	development of VISTA specific packages liaison with WFCAM development team continue discussion on reset anomaly, crosstalk and linearity; assess science array test data for above problems and report liaison with Project Scientist & VISTA development team	JRL MJI	V1-V2 V3	8	19	22	place on hold nothing to report
8.1b 8.2a 8.2b	development of VISTA specific packages liaison with WFCAM development team continue discussion on reset anomaly, crosstalk and linearity; assess science array test data for above problems and report liaison with Project Scientist & VISTA development team assess any new detector engineering test data partake in planning WFCAM commissioning observations continue planning	JRL MJI STH	V1-V2 V3 V1-V2	8 80	19 19 100	22	place on hold  nothing to report  nothing to report
8.1b 8.2a 8.2b	development of VISTA specific packages liaison with WFCAM development team continue discussion on reset anomaly, crosstalk and linearity; assess science array test data for above problems and report liaison with Project Scientist & VISTA development team assess any new detector engineering test data partake in planning WFCAM commissioning observations	JRL MJI	V1-V2 V3	8	19	22	place on hold nothing to report  nothing to report  WFCAM commissioning completed
8.1b 8.2a 8.2b 8.3a	development of VISTA specific packages liaison with WFCAM development team continue discussion on reset anomaly, crosstalk and linearity; assess science array test data for above problems and report liaison with Project Scientist & VISTA development team assess any new detector engineering test data partake in planning WFCAM commissioning observations continue planning partake in planning VISTA comissioning observations liaise and discuss with camera PS and VISTA PS	JRL MJI STH	V1-V2 V3 V1-V2 V3	8 80 0	19 19 100 0	22 22 100 0	place on hold nothing to report  nothing to report  WFCAM commissioning completed  no progress
8.1b 8.2a 8.2b	development of VISTA specific packages liaison with WFCAM development team continue discussion on reset anomaly, crosstalk and linearity; assess science array test data for above problems and report liaison with Project Scientist & VISTA development team assess any new detector engineering test data partake in planning WFCAM commissioning observations continue planning partake in planning VISTA comissioning observations liaise and discuss with camera PS and VISTA PS Participate directly in commissioning WFCAM	JRL MJI STH	V1-V2 V3 V1-V2	8 80	19 19 100	22	place on hold nothing to report  nothing to report  WFCAM commissioning completed
8.1b 8.2a 8.2b 8.3a 8.3b	development of VISTA specific packages liaison with WFCAM development team continue discussion on reset anomaly, crosstalk and linearity; assess science array test data for above problems and report liaison with Project Scientist & VISTA development team assess any new detector engineering test data partake in planning WFCAM commissioning observations continue planning partake in planning VISTA comissioning observations liaise and discuss with camera PS and VISTA PS  Participate directly in commissioning WFCAM complete observations	MJI STH STH	V1-V2 V3 V1-V2 V3 V2	8 80 0 50	19 19 100 0	22 22 100 0	place on hold  nothing to report  nothing to report  WFCAM commissioning completed  no progress took part in second stage of WFCAM on-sky commissioning - completed
8.1b 8.2a 8.2b 8.3a 8.3b 8.4a	development of VISTA specific packages liaison with WFCAM development team continue discussion on reset anomaly, crosstalk and linearity; assess science array test data for above problems and report liaison with Project Scientist & VISTA development team assess any new detector engineering test data partake in planning WFCAM commissioning observations continue planning partake in planning VISTA comissioning observations liaise and discuss with camera PS and VISTA PS Participate directly in commissioning WFCAM complete observations Participate directly in commissioning VISTA	MJI STH STH STH	V1-V2  V3  V1-V2  V3  V1-V2  V3  V2  V4	8 80 0 50	19 19 100 0 100	22 22 100 0 100	place on hold nothing to report  nothing to report  WFCAM commissioning completed  no progress
8.1b 8.2a 8.2b 8.3a 8.3b	development of VISTA specific packages  liaison with WFCAM development team  continue discussion on reset anomaly, crosstalk and linearity; assess science array test data for above problems and report  liaison with Project Scientist & VISTA development team assess any new detector engineering test data  partake in planning WFCAM commissioning observations continue planning  partake in planning VISTA comissioning observations liaise and discuss with camera PS and VISTA PS  Participate directly in commissioning WFCAM complete observations  Participate directly in commissioning VISTA  Tuning pipeline during commissioning and after WFCAM	MJI STH STH	V1-V2 V3 V1-V2 V3 V2	8 80 0 50	19 19 100 0 100	22 22 100 0	place on hold  nothing to report  nothing to report  WFCAM commissioning completed  no progress took part in second stage of WFCAM on-sky commissioning - completed  on hold
8.1b 8.2a 8.2b 8.3a 8.3b 8.4a	development of VISTA specific packages liaison with WFCAM development team continue discussion on reset anomaly, crosstalk and linearity; assess science array test data for above problems and report liaison with Project Scientist & VISTA development team assess any new detector engineering test data partake in planning WFCAM commissioning observations continue planning partake in planning VISTA comissioning observations liaise and discuss with camera PS and VISTA PS Participate directly in commissioning WFCAM complete observations Participate directly in commissioning VISTA	MJI STH STH STH	V1-V2  V3  V1-V2  V3  V1-V2  V3  V2  V4	8 80 0 50	19 19 100 0 100	22 22 100 0 100	place on hold  nothing to report  nothing to report  WFCAM commissioning completed  no progress took part in second stage of WFCAM on-sky commissioning - completed
8.1b 8.2a 8.2b 8.3a 8.3b 8.4a	development of VISTA specific packages liaison with WFCAM development team continue discussion on reset anomaly, crosstalk and linearity; assess science array test data for above problems and report liaison with Project Scientist & VISTA development team assess any new detector engineering test data partake in planning WFCAM commissioning observations continue planning partake in planning VISTA comissioning observations liaise and discuss with camera PS and VISTA PS Participate directly in commissioning WFCAM complete observations Participate directly in commissioning VISTA Tuning pipeline during commissioning and after WFCAM use commissioning data to tune processing strategy; assess the quality and stability	MJI STH STH STH	V1-V2  V3  V1-V2  V3  V2  V4  V2	8 80 0 50 20	19 100 0 100 0 30	22 22 100 0 100	place on hold  nothing to report  nothing to report  WFCAM commissioning completed  no progress took part in second stage of WFCAM on-sky commissioning - completed  on hold  dark and flatfield assessment made and report started, sky subtraction strategy
8.1b 8.2a 8.2b 8.3a 8.3b 8.4a 8.4b 8.5a	development of VISTA specific packages  liaison with WFCAM development team continue discussion on reset anomaly, crosstalk and linearity; assess science array test data for above problems and report  liaison with Project Scientist & VISTA development team assess any new detector engineering test data partake in planning WFCAM commissioning observations continue planning partake in planning VISTA comissioning observations liaise and discuss with camera PS and VISTA PS  Participate directly in commissioning WFCAM complete observations  Participate directly in commissioning VISTA  Tuning pipeline during commissioning and after WFCAM use commissioning data to tune processing strategy; assess the quality and stability of the master calibration data; asses the quality of science output	JRL MJI STH STH STH STH MJI, JRL, EGS	V1-V2  V3  V1-V2  V3  V2  V4  V2	8 80 0 50 20	19 100 0 100 0 30	22 100 0 100 0 35	place on hold  nothing to report  nothing to report  WFCAM commissioning completed  no progress took part in second stage of WFCAM on-sky commissioning - completed  on hold  dark and flatfield assessment made and report started. sky subtraction strategy modified
8.1b 8.2a 8.2b 8.3a 8.3b 8.4a 8.4b 8.5a	development of VISTA specific packages  liaison with WFCAM development team continue discussion on reset anomaly, crosstalk and linearity; assess science array test data for above problems and report  liaison with Project Scientist & VISTA development team assess any new detector engineering test data partake in planning WFCAM commissioning observations continue planning partake in planning VISTA comissioning observations liaise and discuss with camera PS and VISTA PS  Participate directly in commissioning WFCAM complete observations  Participate directly in commissioning VISTA  Tuning pipeline during commissioning and after WFCAM use commissioning data to tune processing strategy; assess the quality and stability of the master calibration data; asses the quality of science output  Tuning pipeline during commissioning and after VISTA	JRL MJI STH STH STH STH MJI, JRL, EGS	V1-V2  V3  V1-V2  V3  V2  V4  V2  V4-V5	8 80 0 50 20	19 100 0 100 0 30	22 100 0 100 0 35	place on hold  nothing to report  nothing to report  WFCAM commissioning completed  no progress took part in second stage of WFCAM on-sky commissioning - completed  on hold  dark and flatfield assessment made and report started. sky subtraction strategy modified
8.1b 8.2a 8.2b 8.3a 8.3b 8.4a 8.5a 8.5b	development of VISTA specific packages  liaison with WFCAM development team continue discussion on reset anomaly, crosstalk and linearity; assess science array test data for above problems and report  liaison with Project Scientist & VISTA development team assess any new detector engineering test data partake in planning WFCAM commissioning observations continue planning partake in planning VISTA comissioning observations liaise and discuss with camera PS and VISTA PS  Participate directly in commissioning WFCAM complete observations  Participate directly in commissioning VISTA Tuning pipeline during commissioning and after WFCAM use commissioning data to tune processing strategy; assess the quality and stability of the master calibration data; asses the quality of science output  Tuning pipeline during commissioning and after VISTA documentation for 2D processing software WFCAM update docs as necessary	JRL MJI STH STH STH STH MJI, JRL, EGS MJI, JRL, EGS JRL	V1-V2  V3  V1-V2  V3  V2  V4  V2  V4-V5  V1-V2	80 80 50 0 20	19 100 0 100 0 30 0 50	22 100 0 100 0 35 0 50	place on hold  nothing to report  nothing to report  WFCAM commissioning completed  no progress took part in second stage of WFCAM on-sky commissioning - completed  on hold  dark and flatfield assessment made and report started. sky subtraction strategy modified on hold  no progress
8.1b 8.2a 8.2b 8.3a 8.3b 8.4a 8.4b 8.5a	development of VISTA specific packages  liaison with WFCAM development team continue discussion on reset anomaly, crosstalk and linearity; assess science array test data for above problems and report  liaison with Project Scientist & VISTA development team assess any new detector engineering test data partake in planning WFCAM commissioning observations continue planning partake in planning VISTA comissioning observations liaise and discuss with camera PS and VISTA PS  Participate directly in commissioning WFCAM complete observations  Participate directly in commissioning VISTA  Tuning pipeline during commissioning and after WFCAM use commissioning data to tune processing strategy; assess the quality and stability of the master calibration data; asses the quality of science output  Tuning pipeline during commissioning and after VISTA documentation for 2D processing software WFCAM	JRL MJI STH STH STH STH MJI, JRL, EGS	V1-V2  V3  V1-V2  V3  V2  V4  V2  V4-V5	88 80 0 50 20 0 50	19 100 0 100 0 30 0 50	22 100 0 100 0 35	place on hold  nothing to report  mothing to report  WFCAM commissioning completed  no progress took part in second stage of WFCAM on-sky commissioning - completed  on hold  dark and flatfield assessment made and report started. sky subtraction strategy modified on hold

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	assess CASU processed WFCAM commissioning data in conjunction with CSV						CSV given access to raw data via archive
9	Development and testing of standard catalogue products						
9.1	add in new measures requested	MJI	V1-V3	60	60	60	
	finish testing and debugging new catalogue parameter measures						all parameters in place, but require verification of error estimates (9.4)
9.2a	refine astrometric calibration model	MJI	V1-V2	85	85	85	
	assess astrometric properties of WFCAM comm-II and SV data						ongoing
9.2b	refine astrometric calibration model - VISTA specific	MJI	V4-V5	0	0	0	on hold
9.3	generate model simulations of expected data	STH	V1	100	100	100	completed
9.4	assess catalogue parameter reliability	MJI	V1-V2	70	70	70	
	refine parameter error estimates and check for systematics in new params, finish in conjunction with 9.1						error estimates being refined with WFCAM SV data
9.5	intercomparison of catalogue products with other packages	MJI	V1-V2	100	100	100	completed
9.6	Completeness	MJI, EGS	V1-V2	0	10	10	
	design and report on completeness model, check completeness [9.6] and error estimates and parameter reliability [9.4]						no progress - note the limitations implied by the sensitivity variation in the detector
9.7	documentation of catalogue software and products	MJI	V1-V2	55	55	55	
	update catalogue products documentation						no progress
10	Setup trial and run further processing pipeline						
10.1	Manage and run further processing stages		V3-V5	0	0	0	placeholder (start in Q3)
10.2	development and assessment of PSF options 1,2	DWE	V1-V2	60	60	60	PSF determination code and PSF fitting code altered to work with real WFCAM data and 80 column catalogues. Testing in progress
	develop and test prototype version of code for PSF level 2						
10.3	develop 1D/2D PSF-deconvolved Sersic profile fits	MJI	V2-V3	0	0	0	
	prototype methods for Sersic profile fitting						no progress
10.4	Develop LSBG/nebulosity detection/parameterisation	MJI	V2-V4	0	0	0	1 0
	investigate feasibility of nebulosity detection						no progress
10.5	Full iterative profile fitting for stellar images		V3-V4	0	0	0	on hold
10.6	Develop and optimize Bayesian image classification	MJI	V3	0	0	0	
	trial Bayesian classification schemes						no progress
10.7	Modelling and simulations of further processing steps		V2-V3	0	0	0	1 0
	simulate WFCAM data and cf with code developed in 10.2						no progress
11	Photometric standards and calibration	1					ing progress
11.1	Agree on primary standards (WFCAM + VISTA)	STH	V1-V2	90	100	100	completed
11.2	Choose secondary standards (WFCAM + VISTA)	STH	V1-V2	80		80	
	add in last few proposed standards and update doc						no progress
11.3a	take part in commissioning observations WFCAM	STH	V2	10	100	100	phase II on-sky characterisation - completed
		STH	V4	0	0	0	on hold
	Reduce data, compute zero points and colour equations WFCAM	STH	V2	15	20	20	
11111	compute ZPs from commissioning data, update colour terms relative to 2mass						data reduced but not analysed
11.4b	Reduce data, compute zero points and colour equations VISTA	STH	V4-V5	0	0	0	on hold
11.5	Update, maintain and extend secondary standards system	STH	V2-V4	0	0	0	
	begin building secondary standard fields system		1 - 1 - 1			-	no progress
11.6	Investigate photometric calibration field systematics WFCAM+VISTA	STH	V2-V5	0	0	0	- 1 - 0
	investigate photometric calibration systematics		1 - 10				no progress
11.7	assess extinction monitoring methods and develop measures	STH	V2-V5	50	50	50	, · ·
<u> </u>	use 2MASS comparison to get first order estimate and assess expected accuracy		12.0		- 3		no progress
12	Further development of DQC measures at summit and Cambr						
12.1	develop extra systematic noise measures	MJI	V1-V2	50	75	75	
<del></del>	trial with comm-II data, continue testing and monitoring systematic noise remover		V . VZ		- 3		no progress
12.2	Refine current measures for WFCAM/VISTA data	JRL, MJI	V3	20	25	25	1.0 p. 03.000
14.4	Tromb dation moderate for W. Only, NOTA data	JULY 14101	_ v J	20	20	20	I .

Item with commit data, monitor DOC assessment and random visual cohoks   JRL   V1-V2   75   100   10					05May	/_del	.xls	
Table   Tabl		trial with comm-II data, monitor DQC assessment and random visual cehcks						no progress
assess and report using commissioning data	12.3	implement 2mass for throughput measurement	JRL	V1-V2		100		· ·
13.   Co-located list driven photometry   13.1   test methods for master catalogue generation   MJI   V1   100   100   100   completed   13.2   develop basic WCS-based list driven photometer   MJI   V1-V2   90   90   90   90   90   90   90   9	12.4		JRL	V1-V2	35	40	40	report underway
13.1   lest methods for master catalogue generation   M.JI   V1   100		assess and report using commissioning data						
13.2   develop basic WCS-based list driven photometer   MJI   V1-V2   90   90   90   90   90   90   90   9	13							
external by driven WCS photometry and define parameter set MJI V2 75 75 75 75 75 75 75 75 75 75 75 75 75	13.1		MJI	V1		100	100	completed
13.3   externally driven WCS photometry and define parameter set   MJI   V2   75   75   75	13.2		MJI	V1-V2	90	90	90	
extend to full 80 parameter set		extend to full 80 parameter set						no progress
14.1   develop benchmark simple stacking/mosaicing framework   MJI   V1   100   100   100   completed	13.3		MJI	V2	75	75	75	
14.1   develop benchmark simple stacking/mosaicing framework   MJI		extend to full 80 parameter set						no progress
14.2   NN algorithm with simple rejection   MJI   V1   100   100   100   completed	14	Stacking and mosaicing						
14.3   More sophisticated rejection dealing with pixellation   MJI   V1-V2   100   100   100   completed	14.1	develop benchmark simple stacking/mosaicing framework	MJI	V1	100	100	100	completed
14.4 Stacking with optimum wighting and defect rejection refine and test current seeing weighting method on FIRES data no progress  14.5 Advanced stacking/image restoration for variable PSF MJI V3-V5 0 0 0 0  TBD as part of UK design review no progress  15 Continuum subtraction and basic difference imaging  15.1 Simple WCS-based subtraction techniques MJI V1-V2 100 100 100 completed  15.2 investigate and apply different interpolation methods MJI V1-V2 100 100 100 completed  15.3 develop adaptive kernel matching option MJI V1-V2 80 80 80 continue debugging and enhancements to adaptive kernel package no progress  15.4 transit event detection STH V2-V3 20 20 20 continue with WBSP, INT WFC and APT datasets no progress  16 Interpolation techniques and PSF modeling  16.1 Investigate alternative interpolation/PSF schemes DWE V1-V2 20 20 20 on hold  16.2 implications for defirent stacking methods DWE V1-V2 70 70 70 finish development and testing of astrometric refinement code finish development and testing of astrometric refinement code finish development and testing of spatially varying PSF model finish development of spatially varying PSF model, final tuning on WFCAM on-sky	14.2		MJI	V1		100	100	completed
refine and test current seeing weighting method on FIRES data  14.5 Advanced stacking/image restoration for variable PSF MJI V3-V5 0 0 0 0  TBD as part of UK design review  15.1 Simple WCS-based subtraction techniques 15.2 Investigate and apply different interpolation methods 15.3 develop adaptive kernel matching option 15.4 transit event detection 15.5 continue with WASP, INT WFC and APT datasets 16.1 Investigate alternative interpolation/PSF schemes 16.2 implications for different stacking methods 16.3 implications for different stacking methods 16.4 oversampled PSF generation per detector 16.5 develop oversampled Spatially varying PSF model 16.6 develop oversampled Spatially varying PSF model 16.7 investigate description of progress 16.4 oversampled PSF generation per detector 16.5 develop oversampled Spatially varying PSF model 16.6 invited the spatial varying PSF model 16.7 invited the spatial varying PSF model 16.8 invited the spatial varying PSF model 16.9 invited the spatial varying PSF model 16.1 investigate alternative interpolation of spatially varying PSF model 16.4 oversampled PSF generation per detector 16.5 develop metant at units of a strong the spatial varying PSF model 16.6 invited the spatial varying PSF model 16.7 invited the spatial varying PSF model 16.8 invited the spatial varying PSF model 16.9 invited the spatia	14.3		MJI	V1-V2	100	100	100	completed
14.5   Advanced stacking/image restoration for variable PSF   MJI   V3-V5   0   0   0   0	14.4		MJI	V2-V3	25	25	25	
TBD as part of UK design review		0 0 0						no progress
15.1 Simple WCS-based subtraction techniques MJI V1-V2 100 100 100 completed  15.2 investigate and apply different interpolation methods MJI V1-V2 100 100 100 completed  15.3 develop adaptive kernel matching option MJI V1-V2 80 80 80 80 continue debugging and enhancements to adaptive kernel package no progress  15.4 transit event detection STH V2-V3 20 20 20 continue with WASP, INT WFC and APT datasets no progress  16.1 Interpolation techniques and PSF modeling  16.2 implications for different stacking methods DWE V1-V2 20 20 20 on hold  16.3 implications for different stacking methods DWE V1-V2 70 70 70 finish development and testing of astrometric refinement code testing begun with real data  16.4 oversampled PSF generation per detector DWE V1-V5 100 100 100 completed  16.5 develop oversampled spatially varying PSF model DWE V2-V5 20 20 20 composition on progress  16.5 Ininish development of spatially varying PSF model, final tuning on WFCAM on-sky	14.5		MJI	V3-V5	0	0	0	
15.1 Simple WCS-based subtraction techniques MJI V1-V2 100 100 100 completed  15.2 investigate and apply different interpolation methods MJI V1-V2 100 100 100 completed  15.3 develop adaptive kernel matching option MJI V1-V2 80 80 80 80 continue debugging and enhancements to adaptive kernel package no progress  15.4 transit event detection STH V2-V3 20 20 20 continue with WASP, INT WFC and APT datasets no progress  16 Interpolation techniques and PSF modeling  16.1 investigate alternative interpolation/PSF schemes DWE V1 100 100 100 completed  16.2 implications for different stacking methods DWE V1-V2 20 20 20 on hold  16.3 implications for deriving catalogues and parameters DWE V1-V2 70 70 70 finish development and testing of astrometric refinement code testing begun with real data  16.4 oversampled PSF generation per detector DWE V1-V5 100 100 100 completed  16.5 develop oversampled spatially varying PSF model finish development of spatially varying PSF model, final tuning on WFCAM on-sky								no progress
15.2 investigate and apply different interpolation methods  MJI V1-V2 100 100 100 completed  15.3 develop adaptive kernel matching option MJI V1-V2 80 80 80 80  continue debugging and enhancements to adaptive kernel package no progress  15.4 transit event detection STH V2-V3 20 20 20 20 20 20 20 20 20 20 20 20 20	<b>15</b>							
15.3 develop adaptive kernel matching option    Solution   Solutio	15.1		MJI	V1-V2	100	100	100	completed
continue debugging and enhancements to adaptive kernel package  15.4 transit event detection continue with WASP, INT WFC and APT datasets  16 Interpolation techniques and PSF modeling  16.1 investigate alternative interpolation/PSF schemes DWE V1 100 100 100 completed  16.2 implications for different stacking methods DWE V1-V2 20 20 20 on hold  16.3 implications for deriving catalogues and parameters DWE V1-V2 70 70 70 finish development and testing of astrometric refinement code  16.4 oversampled PSF generation per detector DWE V1-V5 100 100 100 completed  16.5 develop oversampled spatially varying PSF model finish development of spatially varying PSF model, final tuning on WFCAM on-sky  To progress  No progress  No progress  No progress	15.2			V1-V2				completed
15.4 transit event detection STH V2-V3 20 20 20 20 20 20 20 20 20 20 20 20 20	15.3		MJI	V1-V2	80	80	80	
continue with WASP, INT WFC and APT datasets  Interpolation techniques and PSF modeling  16.1 investigate alternative interpolation/PSF schemes  DWE  V1  V1  V1  V1  V1  V1  V2  V2  V2  V3  V1  V2  V3  V1  V4  V4  V4  V5  V1  V6  V7  V7  V7  V8  V8  V8  V8  V8  V8  V8		continue debugging and enhancements to adaptive kernel package						no progress
Interpolation techniques and PSF modeling   Interpolation	15.4		STH	V2-V3	20	20	20	
16.1 investigate alternative interpolation/PSF schemes  DWE  V1  100  100  100  completed  16.2 implications for different stacking methods  DWE  V1-V2  V1-V2  V2  V1-V2  V2  V2  V1-V2  V2  V2  V1-V2  V2  V2  V2  V2  V3  V3  V4  V4  V4  V5  V4  V5  V4  V5  V4  V5  V4  V5  V5								no progress
16.2 implications for different stacking methods  DWE V1-V2 20 20 20 on hold  16.3 implications for deriving catalogues and parameters  DWE V1-V2 70 70 70  Finish development and testing of astrometric refinement code  16.4 oversampled PSF generation per detector  16.5 develop oversampled spatially varying PSF model  Finish development of spatially varying PSF model, final tuning on WFCAM on-sky  DWE V1-V5 100 100 100 completed  DWE V2-V5 20 20 20  In progress	16	Interpolation techniques and PSF modeling						
16.3 implications for deriving catalogues and parameters    Finish development and testing of astrometric refinement code   DWE   V1-V2   70   70	16.1	investigate alternative interpolation/PSF schemes	DWE	V1		100	100	completed
finish development and testing of astrometric refinement code  16.4 oversampled PSF generation per detector  16.5 develop oversampled spatially varying PSF model finish development of spatially varying PSF model, final tuning on WFCAM on-sky  17. development of spatially varying PSF model, final tuning on WFCAM on-sky  18. development of spatially varying PSF model, final tuning on WFCAM on-sky  19. development of spatially varying PSF model, final tuning on WFCAM on-sky	16.2		DWE	V1-V2		20	20	on hold
16.4 oversampled PSF generation per detector  16.5 develop oversampled spatially varying PSF model  16.6 finish development of spatially varying PSF model, final tuning on WFCAM on-sky  16.4 oversampled PSF generation per detector  16.5 develop oversampled spatially varying PSF model  16.6 develop oversampled spatially varying PSF model, final tuning on WFCAM on-sky  16.7 develop oversampled PSF generation per detector  16.8 develop oversampled spatially varying PSF model  16.9 develop oversampled spatially varying PSF model  16	16.3	implications for deriving catalogues and parameters	DWE	V1-V2	70	70	70	
16.5 develop oversampled spatially varying PSF model DWE V2-V5 20 20 20 In progress								testing begun with real data
finish development of spatially varying PSF model, final tuning on WFCAM on-sky	16.4			V1-V5			100	completed
	16.5		DWE	V2-V5	20	20	20	
								no progress