

WP	CASU WP name /sub task / 04Q3 deliverable	V.I. F.	name	date	end of month report	%sub	%task
#							
1 Management and definition of project responsibilities		3.0					
1.1	report to VISTA, UKIDSS, JAC, ATC, GSC						87
	provide fortnightly meeting minutes, monthly reports on progress + quarterly review reports and planning, attend VDUC meetings		STH, MJI				
	finish and deliver ADASS paper		JRL				
	prepare CASU grant bid (operations)		STH, MJI				
1.2	interface control document between CASU and JAC				completed		100
1.3	interface control document between CASU and WFAU				completed		100
1.4a	define WFCAM data structures and FITS headers				completed		100
1.4b	update proposed VISTA FITS headers as necessary						
1.5a	define WFCAM observing protocols						87
	monitor and help update MSB guidelines		MJI + STH				
	check first pass survey MSBs						
1.5b	define VISTA observing protocols						
	help finish defining science and user requirements		MJI + PSB				
1.6a	liaise with UKIDSS&JAC on WFCAM obs strategy, surveys planning						87
	liaise and monitor progress		DWE				
1.6b	liaise with Project Scientist on VISTA observing strategy & survey planning						
	liaise and monitor progress		PSB				
1.7a	liaise with VDUC on VDFS products for WFCAM						87
	liaise and monitor progress		STH + MJI				
1.7b	liaise with VDUC on VDFS products for VISTA						
	liaise and monitor progress		MJI + STH				
1.8a	liaise with UKIDSS and JAC on survey progress DB		JRL		paused		87
	create version 1 of OMP database mirror to be used with survey progress database, including user interface						
1.9	system documentation						87
	update and maintain web pages of system docs		DWE				
2 ESO VISTA software interface deliverables and documentation		4.0					
2.1	VDFS user requirements document						70
	prepare for and attend FDR		PSB				
	update document as appropriate		PSB				
2.2	data reduction specification document						70
	prepare for and attend FDR		PSB				
	create new DRS document as required		PSB				
	assess CPL+QFITS work requirements						
2.3	calibration plan document						70
	prepare for and attend FDR		PSB				
	update doc as appropriate		PSB				

2.5	ICD ESO/VPO					60
	update FITS header docs and DID/DIC and submit V0.5 for FDR	PSB				
2.7	Delivery software modules for exposure time calculator					0
	prepare for and FDR	PSB				
2.9	liaise with VISTA IR camera development team					75
	continue liaising with VISTA IR camera development team	PSB				
2.10	Development of DQC measures					
	specify what DQC measures will be needed for FDR	PSB				
3 Pipeline infrastructure and pipeline progress monitoring tools 3.5						
3.1	interactive tools for running pipeline					60
	develop tools and document	JRL				
3.2	high level scripts to interrogate headers	STH, JMI		paused		50
3.3	automatic progression of results to web pages	STH, JMI		paused		50
3.4	automatic checks to spot failure of pipeline	JMI, STH		paused		0
3.5	Tools for fixing problem datasets	JRL, JMI		paused		
3.6	group documentation on pipeline infrastructure					60
	stress test documentation and update as necessary	JRL, JMI				
4 Set up and manage raw science archive 0.0						
4.1	extend UKIRT archive to cope with WFCAM data					50
	create version 1 of WFCAM raw data archive	JRL				
5 Set up and manage data processing system hardware 2.0						
5.2	buy hardware and install					80
	purchase and install bulk storage devices	PSB, JMI		paused		
	purchase and install spare ultrium device	PSB, JMI		paused		
5.3	integrating and testing					70
	integrate and test bulk storage devices	PSB, JMI		paused		
	integrate and test spare ultrium device	PSB, JMI		paused		
5.4	Manage day-to-day maintenance and upgrades					50
	continue maintenance and upgrade programme	JMI, PSB				
6 Run standard pipeline 2.5						
6.1	Update WFCAM master calibration frames					
	ingest and verify WFCAM on-sky test data		JRL, MJI			
7 Development work for summit pipeline 1.0						
7.1	Interface test pipelines in ORAC-DR	JRL		completed		100
7.2a	implement WFCAM pipeline at summit					75
	demonstrate catalogue and non-catalogue DQCs	JRL				
	update & maintain + commissioning enhancements					
	develop recipes for dealing with crosstalk, non-linearity, reset anomalies					
7.3a	documentation for ORAC-DR interface					60

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	update and deliver documentation as development proceeds	JRL				
7.4a	upgrade and maintain summit pipeline WFCAM					
	upgrade and maintain	JRL				
8 Development and testing of standard 2d processing 4.0						
8.1a	further development of standard pipeline for WFCAM					80
	finish implementing new version of imcore to include full param set	JRL				
8.2a	liaison with WFCAM development team					75
	continue discussion on reset anomaly, crosstalk and linearity	JRL				
	assess science array test data for above problems and report	JRL				
8.2b	liaison with Project Scientist & VISTA development team					
	assess detector engineering test data	MJI				
8.3a	partake in planning WFCAM commissioning observations					80
	continue liaising with ATC/JAC	STH				
8.3b	partake in planning VISTA comissioning observations					
	liaise and discuss with camera PS and VISTA PS	STH				
8.4a	Participate directly in commissioning WFCAM					
	help with first phase of WFCAM on-sky commissioning	JRL				
8.5	Tuning pipeline during commissioning and after					
	optimize and stress-test pipeline using IPHAS data	JMI				
8.6	documentation for 2D processing software					50
	updates docs as necessary	JRL				
8.7	Comparison between automated and manual data products					75
	compare FIRES with published results and write report	STH				
	compare CSV reduced FIRES data with pipeline reduction	STH				
9 Development and testing of standard catalogue products 4.0						
9.1	add in new measures requested					60
	finish testing and debugging new catalogue parameter measures	MJI				
9.2	refine astrometric calibration model	MJI		paused		85
9.3	generate model simulations of expected data	STH, JMI		paused		80
9.4	assess catalogue parameter reliability					70
	refine parameter error estimates and check for systematics in new params	MJI				
9.5	intercomparison of catalogue products with other packages	JMI		paused		60
9.6	Completeness and error estimates			stopped - subsumed into 9.4		
9.7	documentation of catalogue software and products					55
	update catalogue products documentation	MJI				
10 Setup trial and run further processing pipeline 3.0						
10.2	development and assessment of PSF options 1,2					50
	produce robust version of code for PSF level 1	MJI				
	produce prototype for PSF level 2	MJI				

10.3	develop 1D/2D PSF-deconvolved Sersic profile fits			paused awaiting real WFCAM data		
11 Photometric standards and calibration		3.0				
11.1	agree on primary standards					90
	complete narrow band filter calibration plan and update document	STH				
11.2	choose secondary standard fields					80
	refine/shorten list	STH				
11.3	Take part in commissioning observations WFCAM phase I on-sky characterisation	JRL				
11.7	assess extinction monitoring methods and develop measures					50
	simulate from night(s) data and estimate expected accuracy	STH				
12 Further development of DQC measures at summit and Cambr		2.0				
12.1	develop extra systematic noise measures					50
	trial when WFCAM data becomes available	MJI				
12.2	Refine current measures for WFCAM/VISTA data	JRL				20
	trial when WFCAM data becomes available					
12.3	implement 2mass for throughput measurement	JMI				75
	implement local access version at summit					
12.4	master calibration frames for detector monitoring					35
	assess and report on science array test data	JRL				
13 Co-located list driven photometry		3.0				
13.2	develop basic WCS-based list driven photometer					90
	extend to full 80 parameter set	MJI				
13.3	externally driven WCS photometry and define parameter set					75
	extend to full 80 parameter set	MJI				
14 Stacking and mosaicing		4.0				
14.1	develop benchmark simple stacking/mosaicing framework	MJI		complete		100
14.2	NN algorithm with simple rejection	MJI		complete		100
14.3	More sophisticated rejection dealing with pixellation	MJI		complete		100
14.4	Stacking with optimum weighting and defect rejection					25
	refine and test current seeing weighting method on FIRES data	MJI				
15 Continuum subtraction and basic difference imaging		4.0				
15.1	Simple WCS-based subtraction techniques	MJI		completed		100
15.2	investigate and apply different interpolation methods	MJI		completed		100
15.3	develop adaptive kernel matching option					80
	continue debugging and enhancements to adaptive kernel package	MJI				
15.4	transit event detection					0
	assess difference imaging method (continuum subtraction)	STH				
16 Interpolation techniques and PSF modeling		4.0				
16.1	investigate alternative interpolation/PSF schemes			completed		100

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16.2	implications for different stacking methods			paused awaiting real WFCAM data		20
16.3	implications for deriving catalogues and parameters					70
	finish devtest of astrometric refinement code		DWE			
16.4	oversampled PSF generation per detector			finished		100
16.5	develop oversampled spatially varying PSF model					0
	measure spatial variation in optical/IR datasets		DWE			
	design empirical model describing same		DWE			