## 05Q1\_casu\_deliverables.xls

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WP		V.I. F.	name	end of month report	%sub	task
#						
	Management and definition of project responsibilities	3.0				
	report to VISTA, UKIDSS, JAC, ATC, GSC					8
r	provide fornightly meeting minutes, monthly reports on progress + quarterly review reports and planning, attend VDUC meetings, have regular telecons with JAC, attend ESO VDFS FDR		STH, MJI			
r	prepare for and attend grant review		STH, MJI			
1.2 i	interface control document between CASU and JAC			completed		10
1.3 i	interface control document between CASU and WFAU			completed		10
	iaise with WFAU for design of VISTA ICD		MJI			
1.4a c	define WFCAM data structures and FITS headers			completed		10
1.4b u	update proposed VISTA FITS headers as necessary					<u> </u>
1.5a c	define WFCAM observing protocols					8
	monitor and help update MSB guidelines		MJI + STH			
C	check first pass survey MSBs		STH			
1.5b c	define VISTA observing protocols					
	help finish defining science and user requirements		MJI + PSB			
1.6a I	liaise with UKIDSS&JAC on WFCAM obs strategy, surveys planning					1
	iaise and monitor progress		DWE			_
1.6b I	iaise with Project Scientist on VISTA observing strategy & survey planning					
li	iaise and monitor progress		PSB			
1.7a I	iaise with VDUC on VDFS products for WFCAM					8
li	iaise and monitor progress		STH + MJI			
	prepare report on results from WFCAM comissioning		JRL			
i	involve Simon Dye with commissioning analysis progress		JRL			
	iaise with VDUC on VDFS products for VISTA					
	iaise and monitor progress		MJI + STH			
	assess and prioritise work required for extra UK VDFS products prepare functional specification for UK review (see VDMT A0501-05)		MJI + STH			
·	liaise with UKIDSS and JAC on survey progress DB		JRL			8
r	maintain OMP database mirror to be used with survey progress database, including user interface		JRL			
1.9 •	system documentation					8
	update and maintain web pages of system docs		DWE			<u> </u>
	ESO VISTA software interface deliverables and documentation	4.0	)			
	VDFS user requirements document					
r	respond to RIXs, update documents as appropriate	-	PSB			+
	data reduction specification document					7
r	respond to RIXs, update documents as appropriate		PSB			

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2.3 calibration plan document					
respond to RIXs, update documents as appropriate		PSB			 
					 <u> </u>
2.4 Specification of calibration procedures for ESO				subsumed into 2.3	+
2.5 ICD ESO/VPO					
update FITS header docs and DID/DIC and submit data dictionary files for FD	ıR,	PSB			
update as necessarv					+
2.7 Delivery software modules for exposure time calculator					-
submit V1.0 with calculation forms for FDR		STH			
respond to RIXs, update document as appropriate		STH			
debug and update ETC software modules		MJI			+
2.8 liaise with VISTA IR camera development team					 +
continue liaising with VISTA IR camera development team		PSB			
2.9 Development of DQC measures					
respond to RIXs, update QC measures as required		PSB			
3 Pipeline infrastructure and pipeline progress monitoring tools	3.5	5			
3.1 interactive tools for running pipeline					
develop tools and document		JRL			
3.2 high level scripts to interrogate headers		STH, JMI		paused	
3.3 automatic progression of results to web pages		STH, JMI		paused	
3.4 automatic checks to spot failure of pipeline		JMI, STH		paused	
3.5 Tools for fixing problem datasets		JRL, JMI		paused	
3.6 group documentation on pipeline infrastructure					
stress test documentation and update as necessary		STH, JRL			
3.7 Oversee reprocessing WFCAM data after bug fixes/improvements				awaiting WFCAM science data	 +
4 Set up and manage raw science archive	0.0	 			-
4.1 extend UKIRT archive to cope with WFCAM data					
finish creating version 1 of WFCAM raw data archive		JRL			
4.2 Ingest and verify WFCAM data					 +
ingest and verify Phase I commissioning data		JRL			 +
ingest and verify Phase II commissioning data		JRL			+
5 Set up and manage data processing system hardware	2.0	) <mark></mark>			 _
					 +
5.1 Investigate alternatives (benchmarking, reliability etc)	$\rightarrow$		(	completed	 +
5.2 buy hardware and install	-+-				+
purchase and install RAID disk storeage and backup LTO tape unit		PSB, JMI			+
move all computer kit back to APM building and re-install	-+-	PSB, JMI			 +
	-+-				 +
5.3 integrating and testing	-+-				+
integrate and test entire VDFS system		PSB, JMI			+
	-+-				+
5.4 Manage day-to-day maintenance and upgrades					+
continue maintenance and upgrade programme		JMI, PSB			 +

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6	Run standard pipeline	2.5			
6.1	Update WFCAM master calibration frames				
	ingest and verify WFCAM on-sky test data			JRL, MJI	
6.2	Monitor detector performance WFCAM			awaiting WFCAM science data	
6.3	Oversee standard processing WFCAM			awaiting WFCAM science data	
6.4	Astrometric calibration WFCAM	_		awaiting WFCAM science data	
••••					
6.5	Photometric Calibration WFCAM			awaiting WFCAM science data	
0.0		_			
6.6	Verify Science products and monitor DQC measures WFCAM			awaiting WFCAM science data	
0.0	Verify Science products and monitor bac measures witchin				
	Manifer data and ust transfer to MEALL			auxiting WECAM asianas data	
6.7	Monitor data product transfer to WFAU			awaiting WFCAM science data	
6.8	Reprocess WFCAM data			awaiting WFCAM science data	
	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		JRL		
	develop recipes for dealing with crosstalk, non-linearity, reset anomalies and		JRL		
	persistence when test data on these effects become available				
7.3a	documentation for ORAC-DR interface				60
	update and deliver documentation as development proceeds		JRL		
7 / 2	upgrade and maintain summit pipeline WFCAM				
7.40	upgrade and maintain		JRL		
			JRL		
_					
	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 2h	liaison with Project Scientist & VISTA development team				
			MJI		
5.20	assess any new detector engineering test data				
5.20	assess any new detector engineering test data	_	10101		
					80
	partake in planning WFCAM commissioning observations				80
			STH		80
8.3a	partake in planning WFCAM commissioning observations continue liaising with ATC/JAC			Image: Constraint of the second sec	80
8.3a	partake in planning WFCAM commissioning observations continue liaising with ATC/JAC partake in planning VISTA comissioning observations		STH	Image:	80
8.3a	partake in planning WFCAM commissioning observations continue liaising with ATC/JAC			Image:	80
8.3a 8.3b	partake in planning WFCAM commissioning observations continue liaising with ATC/JAC partake in planning VISTA comissioning observations liaise and discuss with camera PS and VISTA PS		STH	Image:	80
8.3a 8.3b	partake in planning WFCAM commissioning observations continue liaising with ATC/JAC  partake in planning VISTA comissioning observations liaise and discuss with camera PS and VISTA PS  Participate directly in commissioning WFCAM		STH STH	Image:	80
8.3a 8.3b	partake in planning WFCAM commissioning observations continue liaising with ATC/JAC partake in planning VISTA comissioning observations liaise and discuss with camera PS and VISTA PS		STH	Image: Constraint of the second sec	80
8.3a 8.3b 8.4a	partake in planning WFCAM commissioning observations     continue liaising with ATC/JAC     partake in planning VISTA comissioning observations     liaise and discuss with camera PS and VISTA PS     Participate directly in commissioning WFCAM     take part in second stage of WFCAM on-sky commissioning		STH STH	Image: Constraint of the second sec	80
8.3a 8.3b 8.4a	partake in planning WFCAM commissioning observations     continue liaising with ATC/JAC     partake in planning VISTA comissioning observations     liaise and discuss with camera PS and VISTA PS     Participate directly in commissioning WFCAM     take part in second stage of WFCAM on-sky commissioning     Tuning pipeline during commissioning and after		STH STH JRL, STH	Image: Constraint of the second sec	
8.3a 8.3b 8.4a	partake in planning WFCAM commissioning observations     continue liaising with ATC/JAC     partake in planning VISTA comissioning observations     liaise and discuss with camera PS and VISTA PS     Participate directly in commissioning WFCAM     take part in second stage of WFCAM on-sky commissioning     Tuning pipeline during commissioning and after     use commissioning data to tune processing strategy		STH STH	Image: Constraint of the second sec	
8.3a 8.3b 8.4a	partake in planning WFCAM commissioning observations     continue liaising with ATC/JAC     partake in planning VISTA comissioning observations     liaise and discuss with camera PS and VISTA PS     Participate directly in commissioning WFCAM     take part in second stage of WFCAM on-sky commissioning     Tuning pipeline during commissioning and after		STH STH JRL, STH	Image: Constraint of the second sec	

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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			
	assess CASU processed WFCAM commissioning data in conjunction with CSV		STH			
	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			
	<b>A A A A A A</b>					 
9.2	refine astrometric calibration model		MJI		paused	 85
L	· · · · · · · · · · · · · · · · · · ·					 400
9.3	generate model simulations of expected data		STH, JMI		finished	 100
						 70
9.4	assess catalogue parameter reliability					 70
	refine parameter error estimates and check for systematics in new params, finish		MJI			
	in conjunction with 9.1					
0.5	intercomparison of catalogue products with other packages		JMI		stopped - subsumed into 9.4	 60
9.5	intercomparison of catalogue products with other packages		JIVII			
	Completeness and error estimates					
9.6			NA U			
	design and report on completeness model		MJI			
9.7	documentation of catalogue software and products					 55
	update catalogue products documentation		MJI			
- 10	Octors total and much states and an an an and a line	<u> </u>				
10	Setup trial and run further processing pipeline	3.0				1
40.4	Manage and run further processing stages				placebolder (start in O2)	
10.1	Manage and full fullifier processing stages				placeholder (start in Q3)	
40.2	development and assessment of PSF options 1,2					 50
10.2	produce prototype for PSF level 2		MJI			 
			IVIJI			
40.2	develop 1D/2D PSF-deconvolved Sersic profile fits				paused awaiting real WFCAM data (start in Q2)	
10.3	develop 10/20 PSF-deconvolved Sersic prome fits					
10.4	Develop LSBG/nebulosity detection/parameterisation				placeholder (start in Q2)	
10.4						
10.5	Full iterative profile fitting for stellar images				paused	
10.5	Fun iterative prome nitting for stellar images					
10.6	Develop and optimize Bayesian image classification				placeholder (start in Q2)	
10.6	Develop and optimize Bayesian image classification					
10.7	Modelling and simulations of further processing steps				placeholder (start in Q2)	
10.7						
11	Photometric standards and calibration	3.0				1
	agree on primary standards	3.0				90
<u>⊢ • • • •</u>	complete narrow band filter calibration plan and update document		STH			
<u> </u>						
11 2	choose secondary standard fields					 80
⊢ · · .∠	refine/shorten list		STH			
				<u> </u>		
11 2	take part in commissioning observations WFCAM		JRL, STH			
11.3	phase II on-sky characterisation					
11.4-	Reduce data, compute zero points and colour equations WFCAM					 
11.4a			OTU			
<u> </u>	compute ZPs from comissioning data		STH			
	measure colour terms relative to 2mass		STH			 
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16.1 investigate alternative interpolation/PSF schemes		completed	100
16.2 implications for different stacking methods		paused awaiting stage II of WFCAM commissioning	 20
16.3 implications for deriving catalogues and parameters			70
finish development and testing of astrometric refinement code	DWE		 
16.4 oversampled PSF generation per detector		finished	100
16.5 develop oversampled spatially varying PSF model			C
finish development of spatially varying PSF model	DWE		
final tuning on WFCAM on-sky data	DWE		