

04Q2m1_casu_deliverables.xls

WP	CASU WP name /sub task / 04Q2m1 deliverables	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						62
	provide fortnightly meeting minutes, monthly reports on progress + quarterly review reports and planning		STH, MJI	1/5/04	minutes and report produced	10	
	prepare for and present paper at SPIE meeting		MJI	1/5/04	registered	10	
1.2	interface control document between CASU and JAC				completed		100
1.3	interface control document between CASU and WFAU				completed		100
1.4	define WFCAM data structures and FITS headers				completed		100
	check SDF example for completeness		JRL	1/5/04	received and checked example SDF file, finding a few minor typos in the header keywords.	100	
	use to generate test FITS header		JRL	1/5/04	test FITS file generated and report sent to JAC - awaiting response	50	
1.5a	define WFCAM observing protocols						75
	monitor and help update MSB guidelines		MJI, STH	1/5/04	CASU to attend UKIDSS meeting next week.	0	
	check first pass survey MSBs		MJI, STH	1/5/04	ditto	0	
1.5b	define VISTA observing protocols						
	help define science and user requirements		MJI,PSB	1/5/04	more detailed feedback on the UK SRD passed on to WJS	10	
1.6a	liaise with UKIDSS&JAC on WFCAM obs strategy, surveys planning						75
	monitor progress		DWE	1/5/04	nothing to report	0	
1.6b	liaise with Project Scientist on VISTA observing strategy & survey planning						
	monitor progress		PSB	1/5/04	no progress	0	
1.7a	liaise with VDUC on VDFS products for WFCAM						62
	monitor progress		STH,MJI	1/5/04	MJI preparing talk for VDUC meeting	10	
1.7b	liaise with VDUC on VDFS products for VISTA						
	monitor progress		MJI ,STH	1/5/04	MJI preparing talk for VDUC meeting	10	
1.8a	liaise with UKIDSS and JAC on survey progress DB		JRL		paused		50
1.9	system documentation						62
	update and maintain web pages of system docs		DWE	1/5/04	CASU document numbering system clarified and report circulated to group for comments	10	
	2 ESO VISTA software interface deliverables and documentation	4.0					
2.1	VDFS user requirements document						30
	compile RID response document		PSB	1/5/04	PSB,MJI,JRL busy helping compile RID responses	50	
	prepare for and attend PDR, update docs as appropriate		PSB	1/5/04	rephrasing relevant bits of PDR docs	10	
2.2	data reduction specification document						30
	compile RID response document		PSB	1/5/04	PSB,MJI,JRL busy helping compile RID responses	50	
	prepare for and attend PDR, update docs as appropriate		PSB	1/5/04	rephrasing relevant bits of PDR docs	10	
2.3	calibration plan document						60
	compile RID response document		PSB	1/5/04	PSB,MJI,JRL busy helping compile RID responses	50	
	prepare for and attend PDR, update docs as appropriate		PSB	1/5/04	rephrasing relevant bits of PDR docs	10	
2.5	ICD ESO/VPO						60
	update DID and write first draft of DID doc for FDR		PSB	1/5/04	No progress	0	

2.8	liaise with VISTA IR camera development team					62
	continue liaising	PSB	1/5/04	nothing to report	10	
3 Pipeline infrastructure and pipeline progress monitoring tools 3.5						
3.1	interactive tools for running pipeline	JRL		paused		50
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
3.6	group documentation on pipeline infrastructure					55
	stress test documentation and update as necessary	JRL	1/5/04	no progress	0	
4 Set up and manage raw science archive 0.0						
5 Set up and manage data processing system hardware 2.0						
5.2	buy hardware and install	MTB		paused		70
5.3	integrating and testing	MTB		paused		55
5.4	Manage day-to-day maintenance and upgrades	MTB		paused		25
6 Run standard pipeline 2.5						
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	1/5/04	some engineering data received, but none appropriate for these sorts of tests.	0	
7.3a	documentation for ORAC-DR interface					60
	update and deliver documentation as development proceeds	JRL	1/5/04	new recipes being written for WFCAM. documentation updated to reflect additions to the CVS repository	50	
7.4a	upgrade and maintain summit pipeline WFCAM					
	upgrade and maintain	JRL	1/5/04	new pipeline recipes are being written in anticipation of commissioning	10	
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	1/5/04	some debugging done	10	
8.2a	liaison with WFCAM development team					30
	continue discussion on reset anomaly, crosstalk and linearity	JRL	1/5/04	no progress		
	assess engineering test data for above problems and report	JRL	1/5/04	received some WFCAM science device test data and carried out a series of checks to measure reset anomaly, readout noise, gain and non-linearity. Ongoing - initial report in CASU minutes	10	
8.2b	liaison with Project Scientist & VISTA development team					
	develop and test methodology for non-linearity correction, write report	MJI	1/5/04	devised method, wrote report, wrote test software, trialled it successfully	100	
8.3a	partake in planning WFCAM commissioning observations					80
	continue liaising with ATC/JAC	STH	1/5/04	nothing to report	10	
8.3b	partake in planning VISTA commissioning observations					
	liaise and discuss with VISTA PS	STH	1/5/04	nothing to report	10	
8.6	documentation for 2D processing software					50

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	updates docs as necessary and as a result of feedback	JRL	1/5/04	no progress	0	
8.7 Comparison between automated and manual data products						75
	finish pipeline processing of FIRES data	STH	1/5/04	final sample of FIRES data received - about to be processed	10	
	compare FIRES with published results and write report	STH	1/5/04	no progress	0	
	in collaboration with SJW trial UFTI/CIRPASS data through the pipeline, compare with manually reduced data. write report	STH	1/5/04	no progress	0	
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	1/5/04	made some progress on generating better flux error estimates by adding in local sky error estimate	10	
9.2 refine astrometric calibration model						80
	study atmospheric differential refraction in IR and write report	DWE				
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 parameters - finish in conjunction with 9.1	MJI	1/5/04	made some progress on generating better flux error estimates by adding in local sky error estimate	10	
9.5 intercomparison of catalogue products with other packages		JMI		paused		60
9.6 Completeness and error estimates						50
	refine parameter error estimates and check for systematics - finish in conjunction with 9.1 and 9.4	JMI,MJI	1/5/04	no progress	0	
9.7 documentation of catalogue software and products						55
	update catalogue products documentation	MJI	1/5/04	no progress	0	
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	1/5/04	no progress	0	
	produce prototype for PSF level 2	MJI	1/5/04	no progress	0	
10.3 develop 1D/2D PSF-deconvolved Sersic profile fits						
	assess GALFIT interactive package	MJI	1/5/04	no progress	0	
11 Photometric standards and calibration	3.0					
11.1 agree on primary standards						90
	complete narrow band filter calibration plan and update document	STH	1/5/04	no progress	0	
11.2 choose secondary standard fields						80
	finish updates to photom doc and circulate	STH	1/5/04	no progress	0	
11.7 assess extinction monitoring methods and develop measures						50
	complete investigation of UKIRT archive and write report	STH	1/5/04	no progress	0	
	simulate from night(s) data and estimate expected accuracy	STH	1/5/04	no progress	0	
12 Further development of DQC measures at summit and Cambr	2.0					
12.1 develop extra systematic noise measures						50
	linked with detector characterisation	MJI	1/5/04	devised a robust (non-Fourier) method to quantify non-random noise. needs testing on real data	10	
12.2 Refine current measures for WFCAM/VISTA data						20
	linked with detector characterisation	JRL	1/5/04	small amount of progress with current engineering data - need much more and with a better illumination	10	
12.3 implement 2mass for throughput measurement		JMI		paused		75

12.4 master calibration frames for detector monitoring						35
assess and report if current methods work on engineering WFCAM data	JRL	1/5/04	engineering data received so far is not useful for most of these tests.	0		
13 Co-located list driven photometry	3.0					
13.2 develop basic WCS-based list driven photometer						90
investigate practicalities and implement agreed ICD for parameters - finish	MJI	1/5/04	no progress	0		
13.3 externally driven WCS photometry and define parameter set						75
refine, test and debug list-driven parameter estimator - finish	MJI	1/5/04	no progress	0		
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						60
continue development of better spurion rejection allowing for pixellation - finish	MJI	1/5/04	no progress	0		
14.4 Stacking with optimum weighting and defect rejection						
refine current weighting method, test and report on alternative schemes	MJI	1/5/04	discovered some interesting simple weighting schemes, of which the most promising are being implemented	10		
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	1/5/04	continuing. JMI has made a back-end trial user interface for this software to the INT WFS processed data database to progress this with on-demand on-the-fly tests.	10		
16 Interpolation techniques and PSF modeling	4.0					
16.1 investigate alternative interpolation/PSF schemes						70
investigate PSF fitting algorithms and write report - finish	DWE	1/5/04	no progress	0		
16.2 implications for different stacking methods						20
quantify effects of interpolation on stacked image quality	MJI	1/5/04	no progress	0		
16.3 implications for deriving catalogues and parameters						70
test PSF fitting using optical data and include results within above report from 16.1	DWE	1/5/04	no progress	0		
16.4 oversampled PSF generation per detector						50
develop more robust oversampled PSF generator	DWE	1/5/04	no progress	0		