		Q4m2_casi				101
WP CASU WP name /sub_task / 04Q4m2 deliverable	V.I. F.	name	date	end of month report	%sub	% task
#						
1 Management and definition of project responsibilities	3.0	0	1			
1.1 report to VISTA, UKIDSS, JAC, ATC, GSC						8
provide fornightly meeting minutes, monthly reports on progress + quareview reports and planning, attend VDUC meetings	arterly	STH, MJI		meetings held and minuted. monthly report written.	10	
		STH, MJI	30-Nov-04	meetings held and minuted. monthly report written	50	
finish and deliver ADASS paper		JRL	31-Oct-04	finished poster and attended ADASS	100	
prepare CASU grant bid (operations)		STH, MJI	31-Oct-04	preparation well underway, to be submitted mid november	50	
		STH, MJI	30-Nov-04	grant bid completed and submitted	100	
1.2 interface control document between CASU and JAC				completed		10
1.3 interface control document between CASU and WFAU				completed		10
1.4a define WFCAM data structures and FITS headers				completed		10
1.4b update proposed VISTA FITS headers as necessary				paused		
1.5a define WFCAM observing protocols						8
monitor and help update MSB guidelines				contact with Simon Dye and AA to discuss status of MSBs	10	
		MJI, STH	30-Nov-04	held meeting with Simon Dye: included discussion on MSB preparation	50	
check first pass survey MSBs		STH	31-Oct-04	checked GPS MSBs in UKIRT OT. Began construction of GCS MSBs in consultation with NCH. MJI sent textual summary of MSB designs to AA	10	
		STH	30-Nov-04	redesign of MSBs within OT. Can make no progress until SDT updated to reflect these changes	10	
1.5b define VISTA observing protocols						
help finish defining science and user requirements		MJI + PSB	31-Oct-04	nothing further to add pending release of UKURD and feedback from UK community	0	
		MJI + PSB	30-Nov-04	UKURD released, but no feedback yet - VDUC meeting would be useful to discuss this	0	
1.6a liaise with UKIDSS&JAC on WFCAM obs strategy, surveys plann	nina					8
liaise and monitor progress	9	DWE	31-Oct-04	well as commissioning plans.	10	
		STH	30-Nov-04	held meeting with Simon Dye to discuss commissioning and to keep CSV in touch with CASU activities	50	
1.6b liaise with Project Scientist on VISTA observing strategy & surve	y planning					
liaise and monitor progress		PSB	31-Oct-04	comments on SDT document fed to JMS and WJS. Awaiting next version.	10	
		PSB	30-Nov-04	reviewed last version of SDT	50	
1.7a liaise with VDUC on VDFS products for WFCAM						8
liaise and monitor progress		STH + MJI	31-Oct-04	nothing to report. meeting with simon dye will include discussion of science verification and pipeline strategy	10	
		STH + MJI	30-Nov-04	held meeting with Simon Dye including discussion of pipeline and data products	50	
1.7b liaise with VDUC on VDFS products for VISTA						
liaise and monitor progress		MJI + STH	31-Oct-04	nothing to report	10	
				nothing to report	10	

	04Q4III2_C	isu_uelivera	Dies.xis		
On the country that the property of the country of					8
.8a liaise with UKIDSS and JAC on survey progress DB create version 1 of OMP database mirror to be used with survey progress	JRL	21 Oct 04	no further development		
database, including user interface	JAL	31-001-04	no further development	0	
databass, modaling assi monass	JRL	30-Nov-04	no further progress	0	
			The same program		
1.9 system documentation					8
update and maintain web pages of system docs	DWE	31-Oct-04	documentation updated as necessary	10	
	DWE	30-Nov-04	documentation updated as necessary	50	
0.500.0054					
2 ESO VISTA software interface deliverables and documentation 2.1 VDFS user requirements document	4.0				7
prepare for FDR	PSB	31-Oct-04	discussions over schedule for FDR held. date of FDR now moved to		
proposed is: 1 Div			January.	0	
	PSB	30-Nov-04	paused		
update document as appropriate	PSB		no further updates	0	
	PSB	30-Nov-04	incorporated feedback received so far on V1.0 draft, now includes failure strategy	50	
			Sualedy		
2.2 data reduction specification document					7
prepare for FDR	PSB		FDR moved to January	0	
	PSB	30-Nov-04	paused		
			and the last reach		
create new DRS document as required	PSB	31-Oct-04	new document is DRLD. Significant progress on this in the last month resulting in two drafts. 2nd draft is complete in structure and includes most		
			of the details. now awaiting detailed comments from group, plus addition of		
			figures from STH	10	
	PSB	30-Nov-04	incorporated feedback for several sections of DRLD	50	
assess CPL+QFITS work requirements	PSB	31-Oct-04	held discussions with Michele Peron and Carlo Izzo at ADASS. Now		
			awaiting official response	10	
	PSB	30-Nov-04	awaiting official reponse	10	
20					7
2.3 calibration plan document prepare for and attend FDR	PSB	21 Oct 04	FDR moved to January	0	
prepare for and attend FDR	PSB	30-Nov-04			
	1 05	30-1101-04	pauseu		
update doc as appropriate	PSB	31-Oct-04	no further progress	0	
	PSB		incorporated feedback received so far on V1.0 draft. Major revision to		
			templates and updated FITS info	50	
2.5 ICD ESO/VPO					6
update FITS header docs and DID/DIC and submit V0.5 for FDR	PSB	31 Oct 04	QC dictionary written and included in DRLD	50	
update FITS fleader docs and DiD/DiC and Submit V0.5 for FDK	PSB		QC dictionary update after critical feedback	50	
	T OB	00 1407 04	QO diotionary apadic ditor oritidal recapación		
2.7 Delivery software modules for exposure time calculator					
prepare ETC doc for FDR	PSB	31-Oct-04	latest draft of ETC doc (0.3.3) circulated by STH for internal comment and		
			input from JPE, JMS and WJS following initial comments from MJI, DWE,	50	
	STH	20 Nov 04	JMS ETC v0.5 completed and sent off to ESO for comment	50 50	
	ЗІП	30-1100-04	ETC vo.5 completed and sent on to ESO for comment	30	
2.8 liaise with VISTA IR camera development team					7
continue liaising with VISTA IR camera development team	PSB	31-Oct-04	held discussions with JMS and SB	10	
	PSB		held discussions with JMS and SB	50	
2.9 Development of DQC measures					
specify what DQC measures will be needed for FDR	PSB	31-Oct-04	listed required parameters and added to DRLD. now need more detailed	10	
	1 1		formulation of how to compute	10 50	

	T	040	⊒4m∠_casi	ı_deliverar	DIES.XIS		
2	Pipeline infrastructure and pipeline progress monitoring tools	3.5					
	interactive tools for running pipeline	3.3					60
0.1	develop tools and document		JRL	31-Oct-04	more commissioning recipes and scripts written, tests of recipes with		
					WFCAM first light images go well.	10	
			JRL	30-Nov-04	more recipes written and tuned at summit during commissioning.	50	
					, , , , , , , , , , , , , , , , , , ,		
3.2	high level scripts to interrogate headers		STH, JMI		paused		5
	g						
3.3	automatic progression of results to web pages		STH, JMI		paused		5
3.4	automatic checks to spot failure of pipeline		JMI, STH		paused		(
3.5	Tools for fixing problem datasets		JRL, JMI		paused		
							6
3.6	group documentation on pipeline infrastructure		IDI IMI	24 0 - + 0.4		0	
	stress test documentation and update as necessary		JRL, JMI JRL, JMI		no progress no progress	0	
			JKL, JIVII	30-1100-04	no progress	U	
3.7	Oversee reprocessing WFCAM data after bug fixes/improvements				placeholder		
3.7	Oversee reprocessing vir OAW data after bug fixes/improvements				placerolder		
4	Set up and manage raw science archive	0.0		1			
4.1	extend UKIRT archive to cope with WFCAM data						5
	create version 1 of WFCAM raw data archive		JRL	31-Oct-04	table schema written. waiting to complete upgrade to sybase database		
			l		devices before creating the new database	10	
			JRL	30-Nov-04	no further progress	10	
	1						
4.2	Ingest and verify WFCAM data		IDI	20 Nov 04	in a set of MICOAM commissioning data for povind 10/10 07/11	10	
	ingest commissioning data		JRL	30-NOV-04	ingested WFCAM commissioning data for period 18/10-07/11	10	
- 5	Set up and manage data processing system hardware	2.0					
5.1	Investigate alternatives (benchmarking, reliability etc)				completed		100
					·		
5.2	buy hardware and install						8
	purchase and install bulk storage devices		PSB, JMI		paused		
	purchase and install spare ultrium device		PSB, JMI		paused		
5.3	integrating and testing						7
	integrate and test bulk storage devices		PSB, JMI		paused		
	integrate and test spare ultrium device		PSB, JMI		paused		
F 4	Manage day to day maintanance and unawada.		-				5
5.4	Manage day-to-day maintenance and upgrades continue maintenance and upgrade programme		JMI, PSB	21 Oct 04	proceeding as needed	10	3
	continue maintenance and upgrade programme		JMI,PSB		proceeding as reeded proceeding as required	50	
			JIVII,F JD	30-1107-04	proceeding as required	- 00	
6	Run standard pipeline	2.5		1			
6.1	Update WFCAM master calibration frames						
	ingest and verify WFCAM on-sky test data		JRL, MJI	31-Oct-04	awaiting receipt of WFCAM first light images		
	•		JRL,MJI	30-Nov-04	have ingested first set of WFCAM commissioning images [all sdf]. verified		
					small sample of individual detectors by direct transfer from summit pipeline	4.0	
						10	
	Maniton detector neuformence MECAL				who called a second and a second a second and a second an		
0.2	Monitor detector performance WFCAM				placeholder		
6 2	Oversee standard processing WFCAM				placeholder		
0.3	Oversee standard processing wir OAW				piaconolaci		
	I .		L	1	1		

	U4Q4IIIZ_C	asu_delivera			
6.4 Astrometric calibration WFCAM			placeholder		
O. F. Directory atrice Collingstics WEGANA					
6.5 Photometric Calibration WFCAM			placeholder		
6.6 Verify Science products and monitor DQC measures WFCAM			placeholder		
terry deletice products and monitor bage incusures the oain			placeriolaci		
6.7 Monitor data product transfer to WFAU			placeholder		
6.8 Reprocess WFCAM data			placeholder		
7 Development work for summit pipeline	1.0				10
7.1 Interface test pipelines in ORAC-DR	JRL		completed		10
7.2a implement WFCAM pipeline at summit					7
demonstrate catalogue and non-catalogue DQCs	JRL	31-Oct-04	no further progress	0	
	9.15		investigated QC measures during commissioning	10	
			J J		
update & maintain + commissioning enhancements	JRL		pipeline recipes added for a variety of microstep and jitter schemes.	10	
		30-Nov-04	improvements and enhancements made during commissioning.	50	
	<u> </u>	04.0.45		4.0	
develop recipes for dealing with crosstalk, non-linearity, reset anomalies	JRL		no further progress	10	
	JRL	30-NOV-04	recipes for dealing with detector artefacts in being developed with the help of much on-sky data	50	
			or maon on sity data		
3a documentation for ORAC-DR interface					6
update and deliver documentation as development proceeds	JRL	31-Oct-04	documentation added for primitives as they have been written	10	
	JRL		documentation added as recipes delivered	50	
7.4a upgrade and maintain summit pipeline WFCAM					
upgrade and maintain	JRL		further upgrades waiting until end of first part of commissioning run	0	
	JRL	30-Nov-04	upgraded in situ during commissioning	50	
8 Development and testing of standard 2d processing	4.0				
3.1a further development of standard pipeline for WFCAM	ID.	24 0-1 04		0	8
finish implementing new version of imcore to include full param set	JRL RJL	31-Oct-04 30-Nov-04	no further progress	U	
	KJL	30-1107-04			
3.2a liaison with WFCAM development team					7
continue discussion on reset anomaly, crosstalk and linearity	JRL	31-Oct-04	pre-commissioning science-array test data received and analysed.	10	
, , , , , , , , , , , , , , , , , , ,	JRL	30-Nov-04			
			taken to enable characteriztion of detector 'features'	50	
	ID.	24 0-1 04		10	
assess science array test data for above problems and report	JRL JRL	31-Oct-04		10	
	JKL	30-1107-04	test data now in hand and under investigation to enable comprehensive report	50	
.2b liaison with Project Scientist & VISTA development team					
assess detector engineering test data	MJI		awaiting further engineering test data	0	
	MJI	30-Nov-04	have received VISTA detector test reports and in the process of compiling	10	
			CASU engineering test wish list	10	
.3a partake in planning WFCAM commissioning observations					8
continue liaising with ATC/JAC	STH	31-Oct-04	discussions held with JAC via telecon	10	
Some as a series of the series	STH		telecon with JAC on Nov 4th including discussion of commissioning. held		
			meeting with Simon Dve. JRL then out to UKIRT.	100	
3.3b partake in planning VISTA comissioning observations	1				
liaise and discuss with camera PS and VISTA PS	STH		nothing to report	0	
	STH	30-Nov-04	nothing to report	0	

		04Q4m2_ca	su_delivera	DIES.XIS	1	
8.4a	Participate directly in commissioning WFCAM	<u> </u>			40	
	help with first phase of WFCAM on-sky commissioning	JRL		bug fixes and upgrades being issued in real time	10	
		JRL	30-Nov-04	visited UKIRT to participate directly	100	
8.5	Tuning pipeline during commissioning and after					
	use commissioning data to tune processing strategy	MJI	31-Oct-04	awaiting commissioning data	0	
		MJI	30-Nov-04	some tuning and refinement completed at JAC	50	
	assess the quality and stability of the master calibration data	JRL		awaiting commissioning data	0	
		JRL	30-Nov-04	quality assessed. stability to be assessed back in Cambridge	50	
8.6	documentation for 2D processing software					
	updates docs as necessary	JRL	31-Oct-04	no progress	0	
	,	JRL		no progress	0	
8.7	Comparison between automated and manual data products		24.2.4.24	51950		'
	compare FIRES with published results and write report	STH	31-Oct-04	MJI has compared imcore runs on FIRES reduced and CASU reduced datasets.	10	
		STH	30-Nov-04	no progress	10	
	compare CSV reduced FIRES data with pipeline reduction	STH		meeting arranged with CSV	0	
		STH	30-Nov-04	Simon Dye has made no progress and does not plan to reduce this dataset.	0	
				paused		
9	Development and testing of standard catalogue products	4.0			1	
9.1	add in new measures requested					•
	finish testing and debugging new catalogue parameter measures	MJI	31-Oct-04	no progress	0	
		MJI	30-Nov-04	no progress	0	
9.2	refine astrometric calibration model	MJI		paused		8
V. <u>_</u>	Tomo destromento damenda model	100		padood		
9.3	generate model simulations of expected data	STH, JM		paused		
	refine simulations	DWE	31-Oct-04	more detailed simulations run due to improved accuracy of astrometric PSF fitting and updated interleaving report	100	
0.4	assess catalogue parameter reliability					7
9.4	refine parameter error estimates and check for systematics in new params	MJI	31-Oct-04	no progress	0	
	parameter enter estimates and entertries eyetematics in now parame	MJI		no progress	0	
9.5	intercomparison of catalogue products with other packages	JMI		paused		(
0.0	Completeness and error estimates			atamad aubaumad into 0.4		
9.6	Completeness and error estimates			stopped - subsumed into 9.4		
9.7	documentation of catalogue software and products					
•	update catalogue products documentation	MJI	31-Oct-04	no progress	0	
		MJI		more updates to docs (pods) made	50	
- 40						
10	Setup trial and run further processing pipeline	3.0			1	l
10.1	Manage and run further processing stages			placeholder		
10.2	development and assessment of PSF options 1,2					:
	produce robust version of code for PSF level 1	MJI	31-Oct-04	no progress	0	
		MJI	30-Nov-04	Level one code completed.	100	
	produce prototype for PSF level 2	MJI	31 Oct 04	no progress	0	
	produce produtype for For level 2	MJI	30-Nov-04	level 2 ML code constructed, still needs debugging and incorporation	50	_
	I .			TIOTOLE TILE JOUG CONDUI GOLGG, Julii NICOGO GEDUGGING ANG MICOIPOLALION	. 50	I

		046	24IIIZ_Ca	su_deliverar			
10.3	develop 1D/2D PSF-deconvolved Sersic profile fits				paused awaiting real WFCAM data		
10.4	Develop LSBG/nebulosity detection/parameterisation				placeholder		
10.4	Bevelop Eddomedulosky detection/parameterisation				piaceriolidei		
10.5	Full iterative profile fitting for stellar images				placeholder		
10.6	Develop and optimize Bayesian image classification				placeholder		
10.7	Modelling and simulations of further processing steps				placeholder		
10.7	modeling and simulations of farther processing steps				piaceriolidei		
11	Photometric standards and calibration	3.0					
	agree on primary standards						90
	complete narrow band filter calibration plan and update document		STH		discussions with Paul Hirst and contacted Sandy Leggett	10	
			STH	30-Nov-04	no further progress	10	
11 2	choose secondary standard fields						80
	refine/shorten list		STH	31-Oct-04	list updated to include more northern stars. next need to reject fields with		- 00
	To the following the first state of the first state				too bright objects in WFCAM footprint	10	
			STH	30-Nov-04	folded WFCAM expected saturation level into target selection. list shortened	E0	
						50	
11.3	take part in commissioning observations WFCAM					-	
	phase I on-sky characterisation		JRL	31-Oct-04	planned trip to Hawaii for November	10	
	,		JRL			100	
	assess extinction monitoring methods and develop measures						50
	simulate from night(s) data and estimate expected accuracy		STH		no progress	0	
			STH	30-Nov-04	no progress	0	
12	Further development of DQC measures at summit and Cambr	2.0					
	develop extra systematic noise measures	2.0				Т	50
	trial when WFCAM data becomes available		MJI	31-Oct-04	awaiting WFCAM data	0	
			MJI		no progress - only just received data	0	
	Refine current measures for WFCAM/VISTA data						20
	trial when WFCAM data becomes available		JRL		will progress this when WFCAM commissioning data becomes available	0	
			JRL	30-NOV-04	no progress - only just received data	- 0	
12 3	implement 2mass for throughput measurement						75
	implement local access version at summit		JMI	31-Oct-04	no progress	0	
	F		JMI		no progress	0	
	master calibration frames for detector monitoring						35
	assess and report on science array test data		JRL		awaiting commissioning data	0	
			JRL	30-Nov-04	no progress - only just received data	0	
42	Co-located list driven photometry	2.0	<u> </u>				
13	CO-located list universiphotometry	3.0					
13.1	test methods for master catalogue generation				completed		100
					'		
	develop basic WCS-based list driven photometer						90
	extend to full 80 parameter set		MJI		no progress	0	
			MJI	30-Nov-04	no progress	0	
42.2	autamally driven MCC abatamatry and define accounts and					-+	75
	externally driven WCS photometry and define parameter set extend to full 80 parameter set		MJI	31 Oct 04	no progress	0	10
	exterio to ion oo parameter set		MJI		no progress	0	
			14101	30-1107-04	no progress		
- 44	Stacking and mosaicing	4.0		1			

	04Q4m2_c	asu_delivera	bies.xis		
14.1 develop benchmark simple stacking/mosaicing framework	MJI		completed		10
14.2 NN algorithm with simple rejection	MJI		completed		10
14.3 More sophisticated rejection dealing with pixellation	MJI		completed		10
14.4 Stacking with optimum weighting and defect rejection					2
refine and test current seeing weighting method on FIRES data	MJI	31-Oct-04	continuing	10	
	MJI	30-Nov-04	no further progress	10	
15 Continuum subtraction and basic difference imaging	4.0				
15.1 Simple WCS-based subtraction techniques	MJI		completed		10
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 MJI		upgraded as needed upgraded as needed	10 50	
15.4 transit event detection					
assess difference imaging method (continuum subtraction)	STH STH		no progress assessment ongoing - using INT WFC Orion observations	10	
16 Interpolation techniques and PSF modeling	4.0				
16.1 investigate alternative interpolation/PSF schemes			completed		10
16.2 implications for different stacking methods			paused awaiting real WFCAM data		20
16.3 implications for deriving catalogues and parameters					7(
finish development and testing of astrometric refinement code	DWE	31-Oct-04	alternative non-linear least squares module being debugged with astrometric PSF fitting. Slow algorithm 2-4 times more accurate than standard pipeline	10	
	DWE	30-Nov-04	astrometric refinement code effectively finished. Phase 2 report being written	50	
16.4 oversampled PSF generation per detector			finished		10
16.5 develop oversampled spatially varying PSF model					
finish initial development of spatially varying PSF model	DWE	31-Oct-04	no progress	0	
	DWE	30-Nov-04	programme written to analyse spatial variation of PSF using chi-squared from PSF fits. Tested on optical data. Awaiting real data.	10	
final tuning on WFCAM on-sky data	DWE	31-Oct-04	no progress	0	
	DWE	30-Nov-04		0	