	04Q2m3_casu_deliverables.xls						
WP CASU WP name /sub task / 04Q2m3 deliverables	name	date	end of month report	tplan	p.w.	%sub	% task
# A Name and and definition of musication and analysis is					7.0		
1 Management and definition of project responsibilities	1	1		5.5	7.9		
1.1 report to VISTA, UKIDSS, JAC, ATC, GSC	CTIL MI	4/5/04	uniquites and unport unpoliced				75
provide fornightly meeting minutes, monthly reports on progress + quarterly review reports and planning		1/5/04	minutes and report produced			10	
	STH, MJI	1/6/04	minutes and report produced. STH in conjunction with JMS implemented earned value progress monitoring			50	
	STH, MJI	1/7/04	minutes and report produced, also gantt and EV figures		3.0	100	
prepare for and present paper at SPIE meeting	MJI	1/5/04	registered			10	
	MJI	1/6/04	paper written and submitted			50	
	MJI	1/7/04	paper presented at SPIE		1.0	100	
1.2 interface control document between CASU and JAC			completed				100
40146							100
1.3 interface control document between CASU and WFAU			completed				100
1.4 define WFCAM data structures and FITS headers							90
check SDF example for completeness	JRL	1/5/04	received and checked example SDF file, finding a few minor typos in the header keywords.		0.1	100	
the state of the s	IDI	4 /5 /0 4	L 15170 St				
use to generate test FITS header	JRL	1/5/04	test FITS file generated and report sent to JAC - awaiting response			50	
	JRL	1/6/04	awaiting response			50	
	JRL	1/7/04	still awaiting response		0.1	50	
1.5a define WFCAM observing protocols							80
monitor and help update MSB guidelines	MJI, STH	1/5/04	CASU to attend UKIDSS meeting next week.			0	
	MJI, STH	1/6/04	STH attended UKIDSS survey heads meeting.			50	
	MJI, STH	1/7/04	hosted UKIDSS implementation meeting		0.5	100	
check first pass survey MSBs	MJI, STH	1/5/04	ditto			0	
	MJI, STH	1/6/04	Detailed discussions held with Hambly, Edge and Lucas on GCS, DXS and GPS MSBs			50	
	MJI, STH	1/7/04	first pass MSBs checked and much discussion with survey heads. general strategy agreed.		0.5	100	
1.5b define VISTA observing protocols							
help define science and user requirements	MJI, PSB	1/5/04	more detailed feedback on the UK URD passed on to WJS			10	
neip define soletice and aser requirements	MJI, PSB	1/6/04	more comments on UK URD forwarded to WJS			50	
	MJI, PSB	1/7/04	commenting on latest version in progress		0.2	50	
	Widi, i GD	1///04	confinenting on fatest version in progress		0.2	30	
1.6a liaise with UKIDSS&JAC on WFCAM obs strategy, surveys planning							75
monitor progress	DWE	1/5/04	nothing to report			0	
	DWE	1/6/04	comments collated on JAC Survey Operational Model document. to be forwarded to JAC. STH attended UKIDSS meeting, trialed SDT and fedback to Folger. MJI attended UKIRT board meeting and presented				
			report.			50	l .
	DWE	1/7/04	hosted UKIDSS implementation meeting		0.2	100	
1.6b liaise with Project Scientist on VISTA observing strategy & survey planning							
monitor progress	PSB	1/5/04	no progress			10	
	PSB	1/6/04	nothing to report			50	
	PSB	1/7/04	received and commented on updated version of survey tools definition				
	1		document		0.0	100	

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.7a liaise with VDUC on VDFS products for WFCAM							75
monitor progress	STH, MJI	1/5/04	MJI preparing talk for VDUC meeting			10	
Horitor progress		1/6/04	CASU attended and MJI gave to talk to VDUC.			50	
		1/7/04	MJI held discussions with Tim Naylor		0.4	100	
					<u> </u>		
.7b liaise with VDUC on VDFS products for VISTA							
monitor progress		1/5/04	MJI preparing talk for VDUC meeting			10	
		1/6/04	MJI presented talk at VDUC 4/5/04			50	
	MJI, STH	1/7/04	MJI held discussions with Tim Naylor		0.4	100	
.8a liaise with UKIDSS and JAC on survey progress DB	JRL		paused				62
1.9 system documentation							0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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	
	DWE	1/6/04	document www pages updated along with document numbering explanation			50	
	DWE	1/7/04	web pages kept consistant and up to date		1.5	100	
2 ESO VISTA software interface deliverables and document	ation	1		5.5	9.0		
2.1 VDFS user requirements document				3.5	9.0		7(
compile RID response document	PSB	1/5/04	PSB,MJI,JRL busy helping compile RID responses			50	
	PSB	1/6/04	awaiting final version of RIXs			50	
	PSB	1/7/04	awaiting final version of RIXs		1.5	50	
prepare for and attend PDR, update docs as appropriate	PSB	1/5/04	rephrasing relevant bits of PDR docs			10	
	PSB	1/6/04	attended PDR. some updates made. Awaiting final version of RIXs			50	
	PSB	1/7/04	awaiting final version of RIXs		1.5	50	
2.2 data reduction specification document							70
compile RID response document	PSB	1/5/04	PSB,MJI,JRL busy helping compile RID responses			50	
complicities responde decament	PSB	1/6/04	Awaiting final version of RIXs			50	
	PSB	1/7/04	awaiting final version of RIXs		1.5	50	
prepare for and attend PDR, update docs as appropriate	PSB	1/5/04	rephrasing relevant bits of PDR docs			10	
	PSB	1/6/04	attended PDR. some updates made. Awaiting final version of RIXs			50	
	PSB	1/7/04	awaiting final version of RIXs		1.5	50	
0.0							
2.3 calibration plan document	PSB	1/5/04	DCD MIL IDL husu halping compile DID reconcess			50	
compile RID response document	PSB	1/6/04	PSB,MJI,JRL busy helping compile RID responses Awaiting final version of RIXs			50	
	PSB	1/7/04	Awaiting final version of RIXs		1.5	50	
	1 05	17770-1	7 Walting linui version of 1476		1.0		
prepare for and attend PDR, update docs as appropriate	PSB	1/5/04	rephrasing relevant bits of PDR docs			10	
	PSB	1/6/04	attended PDR. some updates made. Awaiting final version of RIXs			50	
	PSB	1/7/04	awaiting final version of RIXs		1.5	50	
2.5 ICD ESO/VPO	DCD	1/5/04	No progress			0	- 6
update DID and write first draft of DID doc for FDR	PSB	1/5/04	No progress				
	PSB PSB	1/6/04	no progress Checked out V2.0 QFITS/CPL. Drafting regionements doc for pipeline		0.0	10	
	FOD	1///04	Checked out v2.0 QFT13/GFL. Draiting regionements doc for pipeline		0.0	10	
2.8 liaise with VISTA IR camera development team							
continue liaising	PSB	1/5/04	nothing to report			10	
outlind lidibility	PSB	1/6/04	nothing to report	+ +		50	

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	PSB	1/7/04	nothing to report		0.0	100	_
3 Pipeline infrastructure and pipeline progress monitoring too	ls			3.3	2.2	'	
3.1 interactive tools for running pipeline							
develop tools and document	JRL	1/5/04	paused				
	JRL	1/6/04	some more tools written and documented			10	
	JRL	1/7/04	some more tools written and documented		1.8	50	
3.2 high level scripts to interrogate headers	STH, JMI		paused				
3.3 automatic progression of results to web pages	STH, JMI		paused				
3.6 group documentation on pipeline infrastructure							
stress test documentation and update as necessary	JRL	1/5/04	no progress			0	
stress test documentation and update as necessary	JIKE	1/6/04	no progress			0	1
		1/7/04	JMI testing pipeline and docs on WFC data		0.4	50	_
		177704	Jivii testing pipeline and docs on vii C data		0.4		
4 Set up and manage raw science archive				1.1	0.0	İ	
5 Set up and manage data processing system hardware				2.2	1.2		
5.2 buy hardware and install							<u> </u>
install server	MTB	1/7/04	brought forward - finished server side installation		0.4	100	
							_
5.3 integrating and testing	NATE	4/7/04				50	-
integrate and test server	MTB	1/7/04	brought forward - carrying out integration tests		0.4	50	
5.4 Manage day-to-day maintenance and upgrades							
begin programme	MTB	1/7/04	maintained and upgraded as required		0.4	100	
	2		Thairtean and approach as required		0.1		
6 Run standard pipeline				11.0	0.0		
7 Development work for summit pipeline				1.1	5.1		
7.1 Interface test pipelines in ORAC-DR	JRL	I	completed	1.1	5.1	I	
7.1 Interface test pipelines in ONAO-DN	JIKE		Completed				
2a implement WFCAM pipeline at summit							
demonstrate catalogue and non-catalogue DQCs	JRL	1/5/04	some engineering data received, but none appropriate for these sorts of tests.			0	
	JRL	1/6/04	no progress due to lack of suitable test data			0	$\overline{}$
	JRL	1/7/04	still no test data. DQC information has been generated from CIRSI data with faked WFCAM headers		1.8	10	
De de comentation fou ODAC DE l'eterfe							
documentation for ORAC-DR interface	ID!	1/5/04	now regines heigh written for MECANA decompositation and at all the self-en-				_
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	
	JRL	1/6/04	more new documentation added as new software added to the CVS repository			50	
	JRL	1/7/04	documentation written for commissioning recipes written this month		0.8	50	
4a upgrade and maintain summit pipeline WFCAM							
upgrade and maintain summit pipeline WFCAW	JRL	1/5/04	new pipeline recipes are being written in anticipation of commissioning		-	10	
apgrade and maintain	JRL	1/6/04	further work on commissioning recipes		+	10	
	JRL	1/7/04	commissioning recipes and and primitives being written to deal with			10	
	UIXL	177704	readout characteristics (persistence, linearity etc)		2.5	10	

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8.1a	further development of standard pipeline for WFCAM	ļ					80
	finish implementing new version of imcore to include full param set	JRL	1/5/04	some debugging done		10	
		JRL	1/6/04	MJI has completed more debugging of prototype version		10	
		JRL	1/7/04	no furher progress	0.0	10	
8.2a	liaison with WFCAM development team						75
	continue discussion on reset anomaly, crosstalk and linearity	JRL	1/5/04	no progress		0	
		JRL	1/6/04	much discussion though limited progress		10	
		JRL	1/7/04	progresss on readout problems is being made now following discussions with ATC staff. Real test data is still vital	0.8	10	
	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	
		JRL	1/6/04	plausible linearity parameters have been calculated for some of the test data. Futher work needs to be done to quantify these better, but really need better data		50	
		JRL	1/7/04	No further work on linearity of existing engineering data	0.9	50	
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 succesfully			
		MJI	1/6/04	updated report. tested for multivalued cases. devised saturation strategies.	0.2	100	
8 32	partake in planning WFCAM commissioning observations						80
0.54	continue liaising with ATC/JAC	STH	1/5/04	nothing to report		10	
		STH	1/6/04	JAC have produced observing strategy document. UKIDSS survey heads meeting discussed WFCAM commissioning - UKIDSS were asked to read proposed plan and comment. UKIDSS implementation group scheduled for 9th June at IoA.		50	
		STH	1/7/04	hosted UKIDSS implementation meeting, more iteration on MSB design and impact on comissioning plan	0.6	100	
0.26	nortaka in planning VICTA comissioning absorvations	+					0
0.30	partake in planning VISTA comissioning observations liaise and discuss with VISTA PS	STH	1/5/04	nothing to report		10	
	liaise and discuss with vista PS	STH	1/5/04	nothing to report		50	
				nothing to report			
		STH	1/7/04	nothing to report	0.0	100	
<u>۔ </u>	de europetetien fen OD museeseinen eeftwen						50
0.0	documentation for 2D processing software updates docs as necessary and as a result of feedback	IDI	1/5/04	no progress		0	30
	updates docs as necessary and as a result of feedback	JRL JRL	1/6/04	no progress		0	
		JRL	1/7/04	no progress no updates made	0.0	0	
		JKL	1///04	no upuates made	0.0	- 0	
	Comparison between automated and manual data are directed	+					75
0.7	Comparison between automated and manual data products	STH	1/5/04	final sample of EIDES data received, shout to be presented		10	73
	finish pipeline processing of FIRES data	STH	1/6/04	final sample of FIRES data received - about to be processed		10	
<u> </u>		STH	1/6/04	no progress processing complete	0.4	100	
		0111	1///04	processing complete	0.4	100	
	compare FIRES with published results and write report	STH	1/5/04	no progress		0	
	Compare Tire o with published results and write report	STH	1/6/04	preliminary calibration applied and initial comparison looks promising		10	
		STH	1/7/04	no further progress	0.2	10	
		15111	1,7,704	no rarato progress	0.2		
	in collaboration with CSV & CS trial UFTI/CIRPASS data through the pipeline, compare with manually reduced data, write report	STH	1/5/04	no progress		0	
		STH	1/6/04	held discussions with CS and CSV and agreed to limit tests to FIRES data then UFTI data. FIRES data made available to Simon Dye who will begin independent processing in July		10	

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		STH	1/7/04	no news		0.2	10	
	Development and testing of standard catalogue products				2.2	2.5		
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	
		MJI	1/6/04	corrected a few bugs			10	
		MJI	1/7/04	continued testing and debugging		0.4	10	
9.2	refine astrometric calibration model							85
	study atmospheric differential refraction in IR and write report	DWE	1/5/04	no progress			0	
		DWE	1/6/04	report completed		1.8	100	
				http://www.ast.cam.ac.uk/vdfs/docs/reports/refractir.ps.gz				
9.3	generate model simulations of expected data	STH, JMI		paused				80
	gonorato modor o managario de oxigoros de deservicios de la constantidad de la constantid	,						
9.4	assess catalogue parameter reliability				2.2 2.5 Ites by adding 10 10 10 10 10 1.8 100 1.8 100 1.8 100 10 10 10 10 10 10 10 10	70		
•••	refine parameter error estimates and check for systematics in new	MJI	1/5/04	made some progress on generating better flux error estimates by adding				
	parameters - finish in conjunction with 9.1		170707	in local sky error estimate			10	
	Datamotoro inilon in conjunction was c. 1	MJI	1/6/04	no progress			10	
		MJI	1/7/04	no progress		0.2		
		10101	177701	no progress		0.2		
9.5	intercomparison of catalogue products with other packages	JMI		paused				60
	intercompaniem of catalogue producte mai earer packages			paacoa				
9.6	Completeness and error estimates	+						50
3.0	refine parameter error estimates and check for systematics - finish	JMI,MJI	1/5/04	no progress				
	in conjunction with 9.1 and 9.4	JIVII,IVIJI	1/5/04	no progress				
	The conjunction with 9.1 and 9.4							
		JMI, MJI	1/6/04	no progress			-	
		JMI, MJI	1/7/04	no progress		0.0	0	
9.7	documentation of catalogue software and products							55
	update catalogue products documentation	MJI	1/5/04	no progress				
		MJI	1/6/04	updated documentation (PODS)			10	
		MJI	1/7/04	made further updates		0.1	10	
10	Setup trial and run further processing pipeline	1	1		4.4	1.4		
	development and assessment of PSF options 1,2		1					50
	produce robust version of code for PSF level 1	MJI	1/5/04	no progress			0	
		MJI	1/6/04	good progress on the PSF generation phase, awaiting final version			50	
		MJI	1/7/04	still awaiting final version		0.2	50	
		1	1			U		
	produce prototype for PSF level 2	MJI	1/5/04	no progress			0	
		MJI	1/6/04	framework for code developed			-	
		MJI	1/7/04	awaiting stable version of level one code		0.2		
		1	.,,,,,,,	arraining stable religion of level one code		0.2		
10.3	develop 1D/2D PSF-deconvolved Sersic profile fits	1						20
10.0	assess GALFIT interactive package	MJI	1/5/04	no progress			0	
	assess OALITI IIIIciactive package	MJI	1/6/04	investigated: found will be useful for a benchmark but probably too slow to				
		IVIOI	170704	be directly applicable. may be possible to modify it since written in C.				
				so among applicable. Thay so possible to fillouity it diffee written in o.			50	
		MJI, JMI	1/7/04	relevant bits extracted and trialled in pipeline. far too slow and unreliable		4.0		
				to be of use, for several good reasons, see report:		1.0	100	
				http://www.ast.cam.ac.uk/vdfs/internal/reports/galfit.html				
11	Photometric standards and calibration				3.3	0.4		
	agree on primary standards							90
	complete narrow band filter calibration plan and update document	STH	1/5/04	no progess			0	
	complete narrow band litter calibration plan and apaate accument	<u> </u>	17070-	no progess				

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	STH	1/6/04	no progress			0	
	STH	1/7/04	no progress		0.0	0	
11.2 choose secondary standard fields							80
finish updates to photom doc and circulate	STH	1/5/04	no progress			0	
	STH	1/6/04	no progress			0	
	STH	1/7/04	no progress		0.0	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	
	STH	1/6/04	no progress			0	
	STH	1/7/04	investigated spatial systematics - need more useful data		0.4	10	
simulate from night(s) data and estimate expected accuracy	STH	1/5/04	no progress			0	
	STH	1/6/04	no progress			0	
	STH	1/7/04	no progress		0.0	0	
12 Further development of DQC measures at summit and Cambr				2.2	0.4		
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	
	MJI	1/6/04	no progress			10	
	MJI	1/7/04	prototype version, still need wider range of data with problems to test		0.2	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	
	JRL	1/6/04	no progress due to lack of appropriate engineering data			10	
	JRL	1/7/04	no progress due to lack of appropriate engineering data		0.2	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	JRL	1/5/04	engineering data received so far is not useful for most of these tests.			0	
	JRL	1/6/04	no progress due to lack of appropriate engineering data			0	
	JRL	1/7/04	no progress due to lack of appropriate engineering data		0.0	0	
13 Co-located list driven photometry				1.1	0.2		
13.2 develop basic WCS-based list driven photometer						- 1	90
investigate practicalities and implement agreed ICD for parameters	- MJI	1/5/04	no progress				
finish			- F G			0	
	MJI	1/6/04	have a working version. needs more debugging			50	
	MJI	1/7/04	no further progress		0.1	50	
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	
	MJI	1/6/04	have a working version. needs more debugging			50	
	MJI	1/7/04	no further progress		0.1	50	
14 Stacking and mosaicing				3.3	0.6		
14.1 develop benchmark simple stacking/mosaicing framework	MJI		complete				100
14.2 NN algorithm with simple rejection	MJI		complete				100
garana ampa agaman	1						
14.3 More sophisticated rejection dealing with pixellation							80
continue development of better spurion rejection allowing for	MJI	1/5/04	no progress				
		1	- r - u			0	
pixellation - finish						10	

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		MJI	1/7/04	finished and test on real data. works very well.		0.3	100	
14	4 Stacking with optimum weighting and defect rejection						\rightarrow	2
	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	
	Scrienes	MJI	1/6/04	being used in trial mode by IPHAS collaboration			10	
		MJI	1/7/04	trial looks promising, but need wider variation in seeing to test some		0.3		
				aspects		0.0	50	
4.	5 Continuum subtraction and basic difference imaging				1.1	0.3		
		MJI	1	completed	1.1	0.5		100
10.	omple Woo-based subtraction techniques	IVIOI		Completed			_	
15.2	2 investigate and apply different interpolation methods	MJI		completed				100
							\longrightarrow	
15.	3 develop adaptive kernel matching option		1.50				\longrightarrow	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 ondemand on-the-fly tests.			10	
		MJI	1/6/04	no progress			10	
		MJI	1/7/04	more sophisticated on-demand option developed, being trialled and debugged		0.3	50	
	6 Interpolation techniques and PSF modeling				2.2	3.2		
16.	1 investigate alternative interpolation/PSF schemes							70
	investigate PSF fitting algorithms and write report - finish	DWE	1/5/04	no progress			0	
		DWE	1/6/04	no progress			0	
		DWE	1/7/04	draft finished - awaiting feedback from group		1.0	50	
40	O impulso ations for different atomics and also			http://www.ast.cam.ac.uk/vdfs/internal/reports/psf			\longrightarrow	3(
16.	2 implications for different stacking methods quantify effects of interpolation on stacked image quality	MJI	1/5/04	no progress			0	- 31
	quantity effects of interpolation on stacked image quanty	MJI	1/6/04	compared bilinear and NN schemes - negligible effect for well sample				
		NA II	4/7/04	data: undersampled next		0.0	10 10	
		MJI	1/7/04	no progress		0.2	10	
16 1	3 implications for deriving catalogues and parameters						\rightarrow	80
10.	test PSF fitting using optical data and include results within above report from 16.1	DWE	1/5/04	no progress			0	
	TOPORT HOTH 10.1	DWE	1/6/04	no progress			0	
		DWE	1/7/04	tests of PSF fitting using optical data completed successfully and incorporated in report (16.1)		1.0	100	
6 4	oversampled PSF generation per detector				-		\longrightarrow	80
0.4	develop more robust oversampled PSF generator	DWE	1/5/04	no progress			0	- 00
	develop more reputs eversampled if or generator	DWE	1/6/04	PSF generator written and in testing phase			50	
		DWE	1/7/04	PSF generator writer and intesting pridate PSF generator testing complete. Parametric and non-parametric PSFs generated. Robustness tested on crowded simulations and real ING WFC data. Future bells and whistles identified.		1.0	100	
				data. I diare pelle and willouge identified.				
	<u></u>	ALL			51.7	37.7	فرور	