03Q3m2\_casu\_deliverables.xls

		03Q3m2_casu	_deliverabl	les.xis	
/P	CASU WP name /sub_task / 03Q3 deliverable	V.I.F. name	date	end of month report	% dc
1	Management and definition of project responsibilities	3.0			
	report to VISTA, UKIDSS, JAC, ATC, GSC				
	provide fornightly meeting minutes, monthly reports on progress + quarterly review reports and planning	MJI STH	31/07/03	continued maintainance of management spreadsheets and documents	
		MJI, STH	31/08/03	ongoing	
1 2	interface control document between CASU and JAC				
1.4	in conjunction with JAC produce and sign off hard copy	MJI	31/07/03	no progress	
	in conjunction with once produce and sign on right copy	MJI	31/08/03	still not finished	-
1.3	interface control document between CASU and WFAU				
	sign off Q2 ICD and finalise advanced processing product ICD	MJI	31/07/03	no progress	
		MJI	31/08/03	still not finished	
1 1	define data structures and FITS headers				
	update example MEF headers in reponse to feedback from ATC, JAC, WFAU	JRL	31/07/03	comments on headers from NCH being incorporated in minor revision of MEF	
	apaate example will incaders in reponse to recapack from A10, 0A0, Wi A0	JIKE	31/07/03	headers	
		JRL	31/08/03	done. Further issues will apear close to commissioning so further tweaking will be needed then	
1 5	define observing protocols	STH		placeholder	
1.0	define observing protocols	эіп		placeriolidei	
1.6	liaise with UKIDSS & JAC on observing strategy				
	monitor progress	DWE	31/07/03	ongoing	
		DWE	31/08/03	ongoing	
1.7	liaise with UKIDSS & JAC on survey planning	DWE	31/07/03		
	monitor progress	DWE DWE	31/07/03	ongoing ongoing	
				- ng-mg	
1.8	liaise with UKIDSS and JAC on survey progress DB				
	get feedback from JAC for mirroring of current progress database	JRL	31/07/03	ongoing	
		JRL	31/08/03	ongoing	
	investigate use of Sybase Replication Server to perform the task	JRL	31/07/03	ongoing	
	investigate use of dybase replication server to perform the task	JRL	31/08/03	ongoing	
	deliver a working mirror copy of the OMP database	JRL	31/07/03	ongoing	
		JRL	31/08/03	ongoing	
1 0	system documentation				
1.5	update and maintain web pages of system docs	DWE	31/07/03	updated as necessary	
	apade and maintain was pages or system does	DWE	31/08/03	Updated as necessary	
	PESO VISTA software interface deliverables and documentation	4.0	1		
2.1	VDFS user requirements document	DOD	31/07/03	first draft produced. Needs internal reviewing	
	inc. QC and JPE and other feedback produce first real draft	PSB PSB	31/07/03	first draft produced. Needs internal reviewing ongoing	
		1 00	31/00/03	ongoing	
2.2	data reduction specification document				
	produce first real draft of DRS document	PSB	31/07/03	skeleton of first draft completed	
		PSB	31/08/03	no progress	
2 2	calibration plan decument				
∠.3	calibration plan document produce first real draft of calibration document	PSB	31/07/03	merged input from JRL, sourced ESO reference documents	
	produce inscreai drait or cambration document	PSB	31/07/03	incorporated a number of changes to layout and content as a result of detailed	
		. 55	355,65	discussion with local group	
_					
2.5	ICD ESO/VPO Simon Hodgkin		age 1		2/9

03Q3m2 casu deliverables.xls

	03Q3m2_casu	ı_deliverab	les.xls	
draft version of Data Interface dictionary - esp. FITS header specification	PSB PSB	31/07/03 31/08/03	researched formats required by ESO, collected source docs produced DID-format file based on camera software document, and draft DID for primary headers including WFCAM-style observation markers. Used these and standard ESO TCS, IRACE detector and primary DID to produce draft dummy FITS header, which is the far easier way to let others digest the	1
			suggested record set	5
2.8 liaise with VISTA IR camera development team				1
check camera documentation for conflicts/issues	PSB	31/07/03	reviewed camera-control doc	1
Uncok damena documentation for commotorisades	PSB	31/08/03	some informal discussion	1
	DOD	04/07/00		
attend camera software design review and present CASU pipeline plans	PSB PSB	31/07/03 31/08/03	no progress no progress	
3 Pipeline infrastructure and pipeline progress monitoring tools 3.1 interactive tools for running pipeline	3.5	1		5
write a set of executable scripts for individual reduction tasks	JRL	31/07/03	some instrument specific routines remain to be done	5
	JRL	31/08/03	added a few more, not quite finished	5
deliver a set of scripts that can be run to access individual tasks within CIRDR	JRL	31/07/03	generic routines finished and documented	
deliver a set of scripts that can be full to access individual tasks within CIRDR	JKL	31/07/03	generic routines imistied and documented	10
3.2 high level scripts to interrogate headers				5
test and update using nights of CIRSI data	STH + JMI	31/07/03	no progress - awaiting the generation of a night's worth of data	
	STH + JMI	31/08/03	entire night of CIRSI data now run through pipeline and scripts tested and	
	01111101111	01/00/00	modified accordingly	10
3.3 automatic progression of results to web pages				5
interrogate pipeline progress database and produce test web page summaries	STH + JMI	31/07/03	infrastructure in place and test WWW pages generated - need whole night of	
	STH + JMI	31/08/03	test data to progress and refine web page summaries now updated to include results of complete night's worth	50
		-	of processing - see report	10
			http://www.ast.cam.ac.uk/~wfcam/documentation.html	
3.6 group documentation on pipeline infrastructure				5
modify current documentation according to recommendations from stress tests.	JRL	31/07/03	incorporated feedback from JMI, more thorough revision will be put in place Aug/Sep	5
	JRL	31/08/03	no further progress	5
10.4 cm and management assessment assessment				
4 Set up and manage raw science archive	0.0	T		
5 Set up and manage data processing system hardware	2.0	1		
5.2 buy hardware and install				5
tender for purchase and install data ingest server hardware/software	MTB	31/07/03	investigated alternative suppliers for data ingest server but awaiting test results on LTO-1/2's before proceeding	1
	МТВ	31/08/03	about to place order for data ingest server and LTO-II system	5
conduct tests on Ultrium tapes as transport medium	MTB	31/07/03	awaiting results	1
	MTB	31/08/03	preliminary test results from ROE encouraging., awaiting further test results	5
6 Run standard pipeline	2.5			
7 Development work for summit pipeline 7.1 Interface test pipelines in ORAC-DR	1.0			5(
update and trial updated test pipelines	JRL	31/07/03	no feedback from JAC on current implementation so no revisions have been	
	JRL	31/08/03	made, the next stage of the pipeline development is well underway still awaiting feedback from JAC	50 50
	JIL	31/00/03	San awarang recapack from the	
7.2 implement WFCAM pipeline at summit  CVS deposit and trial test ORACDR pipeline at JAC	IDI	24/07/02	qualities completion of 7.1	10
Simon Hodgkin	JRL	31/07/03 age 2	awaiting completion of 7.1	2/9/03

03Q3m2\_casu\_deliverables.xls

	JRL	31/08/03	awaiting completion of 7.1	0
			<u> </u>	
documentation for ORAC-DR interface				50
continue to add to interface documentation as pipeline modules are written. These will appear in the CIRDR and ORACDR documentation sets	JRL	31/07/03	in progress	50
	JRL	31/08/03	awaiting completion of 7.1	50
Development and testing of standard 2d processing	4.0			
		0.4.40=40.0		50
process night(s) of CIRSI data with pseudo trial WFCAM pipeline	JRL	31/07/03	part of a night processed. Now creating complete night(s) of data with	50
	JRL	31/08/03	completed	100
rewrite routine for extraction of astrometric and photometric standards using 2MASS catalogue	JRL	31/07/03	JMI has written an efficient extraction procedure for 2MASS will incorporate	50
	JRL	31/08/03	completed. Integrated into standard pipeline	100
deliver report on flatfielding and sky subtraction strategies	JRI	31/07/03	not started	0
actives report on hadiolating and only captiaction offacegree				10
	0.12			
write updated wrapper for improved version of catalogue software	JRL	31/07/03	awaiting latest version of catalogue generation from MJI	C
	JRL	31/08/03	MJI's complete version of the catalogue software is under development. Tested and integrated intermediate version which generates catalogues in the correct format though with dummy values for the new parameters.	50
liaison with WFCAM development team				10
assess engineering test data for reset anomaly, dark stability, cross-talk, image	JRL	31/07/03	no feedback from ATC, awaiting new test data	0
Citation and inicanty	JRL	31/08/03	no test results available from ATC	0
				50
logether with ATC/JAC finish calibration plan	STH	31/07/03	several nights worth of calibration photometry to refine calibration plan and examine nightly behaviour	10
	STH	31/08/03	some data received from SKL, but have yet to begin analysis. characterisation plan document now in place, preliminary comments sent to ATC from CASU.	50
			http://www.jach.hawaii.edu/JACpublic/UKIRT/instruments/wfcam/commissioning	
documentation for 2D processing software				50
drive test pipelines and update and deliver documentation as modules are written	JRL	31/07/03	revised documentation tree to fix inter-doc linking errors, added tree for	50
	JRL	31/08/03	no further work done this month	50
				10
acquire suitable pre-WFCAM test datasets	STH	31/07/03	Steve Warren with proposals for data sets.	50
	STH	31/08/03	Steve Warren has proposed some UFTI data to test, discussions continuing	50
pipeline process datasets			no progress yet	0
	SIH	31/08/03	no progress yet	
Development and testing of standard catalogue products	4.0			
		04/0=/00	C. I. I. C. FITOL II. I	10
Produce first version of catalogue software with all extra measures				10 10
	IVIJI	31/08/03	Statled	10
refine astrometric calibration model				10
produce report on optical distortion simulations	MJI	31/07/03	updated plots using more recent distortion data	50
	MJI	31/08/03	no progress	50
	Development and testing of standard 2d processing further development of standard pipeline process night(s) of CIRSI data with pseudo trial WFCAM pipeline rewrite routine for extraction of astrometric and photometric standards using 2MASS catalogue deliver report on flatfielding and sky subtraction strategies write updated wrapper for improved version of catalogue software  liaison with WFCAM development team assess engineering test data for reset anomaly, dark stability, cross-talk, image retention and linearity  partake in planning commissioning/characterisation observations together with ATC/JAC finish calibration plan  documentation for 2D processing software  drive test pipelines and update and deliver documentation as modules are written  comparison between automated and manual data products acquire suitable pre-WFCAM test datasets  Development and testing of standard catalogue products add in new measures requested Produce first version of catalogue software with all extra measures  refine astrometric calibration model	Development and testing of standard 2d processing  4.0  Development of standard pipeline  Process night(s) of CIRSI data with pseudo trial WFCAM pipeline  Trewrite routine for extraction of astrometric and photometric standards using  ZMASS catalogue  JRL  JRL  JRL  JRL  JRL  JRL  JRL  JR	will appear in the CIRDR and ORACDR documentation sets  JRL 31/08/03  Development and testing of standard 2d processing  further development of standard pipeline process night(s) of CIRSI data with pseudo trial WFCAM pipeline JRL 31/08/03  JRL 31/08/03	JRL 310803 awaiting completed of 7.1  Development and testing of standard 2d processing 4.0  Unther development of standard pipeline or 20 process night (s) of CIRSI data with pseudo that WFCAM pipeline 3RL 310703 JRL 310803 completed. The CAM between automated and processed that with pseudo that WFCAM pipeline 3RL 310703 JRL 310803 completed. The completed in the complete significance of the completed in the complete in the comple

03Q3m2\_casu\_deliverables.xls

	U3Q3m2_casu	_uelivelab	163.413	
9.3 generate model simulations of expected data				5
further development of simulations	STH + JMI	31/07/03	thorough investigations of Skymaker and ARTDATA completed. Skymaker used to generate detailed simulations of stellar fields, simulations include microstepping tests. galaxy generation still under investigation	50
	STH + JMI	31/08/03	command line driven procedures in place to run simulations with choice of ARTDATA and Skymaker, succesfully tested by other group members. Application supports all WFCAM broadband filters with appropriate skybackground.	100
9.4 assess catalogue parameter reliability				50
run prototype pipeline on simulations and compare derived parameters with model data, write report	JMI	31/07/03	preliminary report written, includes inputoutput comparison	50
	JMI	31/08/03	report completed	100
			www.ast.cam.ac.uk/~wfcam/internal/reports/simul/	
9.5 intercomparison of catalogue products with other packages				10
agree detailed trials using INT WFC data and report on catalogue extraction and classification software comparisons	JMI	31/07/03	sextractor vs imcore comparisons made using simulations.	10
	JMI	31/08/03	results of comparison test incorporated in simulation report (9.4)	100
9.6 Completeness and error estimates				50
report on completeness and error estimates as a function of seeing and sky brightness	JMI	31/07/03	simulations modified to incorporate seeing variations, sky brightness changes, and source density. Results included in report (9.4)	50
	JMI	31/08/03	report scrutinised by group and updated	50
			www.ast.cam.ac.uk/~wfcam/documentation.html	
		-		
9.7 documentation of catalogue software and products	NA II	04/07/00		<b>50</b>
update, fold in more detail and stress test	MJI	31/07/03	no progress	50
		31/08/03	ongoing	50
10 Setup trial and run further processing pipeline	3.0			
10 Setup that and full further processing pipeline	3.0	1		
11 Photometric standards and calibration	3.0			
11.1 agree on primary standards				50
investigate and report on narrow-band filter calibration options	STH	31/07/03	no progress.	0
	STH	31/08/03	no progress.	0
11.2 choose secondary standard fields				50
incorporate feedback from working group on choice of secondary fields and update document	STH	31/07/03	updated document following ROE meeting, used 2MASS dataset to refine choice of standard fields, now awaiting results of discussion with Sandy Leggett and analysis of UFTI data.	50
		31/08/03	no progress	50
12 Further development of DQC measures at summit and Cambr	2.0			
12.3 implement 2mass for throughput measurement	18.41	31/07/03	aveities data (0.4)	<b>50</b>
extend tests to night(s) of pseudo WFCAM pipeline processed CIRSI data	JMI JMI	31/07/03	awaiting data (8.1) available data set now extended to one complete night. processed using latest	100
40.4 master cellbration frames for data to mark the			version of pipeline.	100
12.4 master calibration frames for detector monitoring assess and report if current methods work on engineering WFCAM data	IDI	31/07/03	awaiting angineering data from ATC	
assess and report if current methods work on engineering WFCAM data	JRL		awaiting engineering data from ATC no test results available from ATC	0
	JRL	31/08/03	no lest results available from ATC	0
13 Co-located list driven photometry	3.0			
13.2 develop basic WCS-based list driven photometer				50
investigate practicalities and implement agreed ICD for parameters	MJI	31/07/03	using INT WFC data to assess practical implementation methods	10
	MJI	31/08/03	developed this further on real data and have schema for practical	50
			implementation	30
14 Stacking and mosaicing	4.0			
Simon Hadakin	<del></del>	ngo 4		2/0/02

03Q3m2 casu deliverables.xls

	03Q3m2_ca	su_deliverab	les.xls	
14.1 develop benchmark simple stacking/mosaicing framework				100
bug fix and update as necessary	MJI	31/07/03	updated and fixed the odd bugs	50
	MJI	31/08/03	in conjunction with JMI fixing bugs and improving with results of extensive use and feedback. JMI has now produced prototype mosaicer that can produce arbitrarily large mosaics limited only by disk space.	50
14.2 NN algorithm with simple rejection				100
bug fix and update as necessary	MJI	31/07/03	updated and fixed the odd bugs	50
	MJI	31/08/03	extensively tested and bug fixed with input from JMI.	50
15 Continuum subtraction and basic difference imaging	4.0			
15.1 write WCS-based difference imaging driver software				<b>50</b> 50
bug fix and update as necessary	MJI	31/07/03	updated and being used in package intercomparisons	50
	MJI	31/08/03	produced first CASU adaptive kernel version of fitsio_subtract for difference imaging using confidence maps correctly. Compared with Sne (Toads) and IAB version. Further improvements planned but initial results are promising	50
15.2 investigate and apply different interpolation methods				50
compare different software packages for difference imaging and produce report	DWE + .	JMI 31/07/03	JMI has made progress on the report. Initial tests have been carried out on the three software packages under consideration using two datasets	50
	DWE + .	JMI 31/08/03	the three software packages under consideration using two datasets  JMI has completed the report incorporating four software packages using 2 pairs of datasets	
			www.ast.cam.ac.uk/~wfcam/documentation.html	50
16 Interpolation techniques and PSF modeling	4.0			
16.1 investigate alternative interpolation/PSF schemes				10
finish review and write short report on alternatives	DWE	31/07/03	evaluating Swarp for use in interpolation tests	10
	DWE	31/08/03	Swarp and artdata now set up to carry out simulations	10
16.3 implications for deriving catalogues and parameters				10
assess and write report on errors in catalogue parameters arising from using different interpolation schemes	DWE	31/07/03	no progress	0
	DWE	31/08/03	no progress	0
16.4 oversampled PSF generation per detector				10
write first pass PSF generator using optical test data	DWE	31/07/03	no progress	0
	DWE	31/08/03	no progress	0