WP	CASU WP name /sub task / 03Q3 deliverable	V.I.F.	name	date	end of month report	% done
#						
1	**Management and definition of project responsibilities**	**3.0**				
1.1	**report to VISTA, UKIDSS, JAC, ATC, GSC**					
	provide fornightly meeting minutes, monthly reports on progress + quarterly review reports and planning		MJI STH			
1.2	**interface control document between CASU and JAC**					
	in conjunction with JAC produce and sign off hard copy		MJI			
1.3	**interface control document between CASU and WFAU**					
	sign off Q2 ICD and finalise advanced processing product ICD		MJI			
1.4	**define data structures and FITS headers**					
	update example MEF headers in reponse to feedback from ATC, JAC, WFAU		JRL			
1.5	**define observing protocols**		STH			
1.6	**liaise with UKIDSS & JAC on observing strategy**					
	monitor progress		DWE			
1.7	**liaise with UKIDSS & JAC on survey planning**					
	monitor progress		DWE			
1.8	**liaise with UKIDSS and JAC on survey progress DB**					
	get feedback from JAC for mirroring of current progress database		JRL			
	investigate use of Sybase Replication Server to perform the task		JRL			
	deliver a working mirror copy of the OMP database		JRL			
1.9	**system documentation**					
	update and maintain web pages of system docs		DWE			
2	**ESO VISTA software interface deliverables and documentation**	**4.0**				
2.1	**VDFS user requirements document**					
	inc. QC and JPE and other feedback produce first real draft		PSB			
2.2	**data reduction specification document**					
	produce first real draft of DRS document		PSB			
2.3	**calibration plan document**					
	produce first real draft of calibration document		PSB			
2.5	**ICD ESO/VPO**					
	draft version of Data Interface dictionary - esp. FITS header specification		PSB			
2.8	**liaise with VISTA IR camera development team**					

	check camera documentation for conflicts/issues		PSB			
	attend camera software design review and present CASU pipeline plans		PSB			
3	**Pipeline infrastructure and pipeline progress monitoring tools**	**3.5**				
3.1	**interactive tools for running pipeline**					
	write a set of executable scripts for individual reduction tasks		JRL			
	deliver a set of scripts that can be run to access individual tasks within CIRDR		JRL			
3.2	**high level scripts to interrogate headers**					
	test and update using nights of CIRSI data		STH			
3.3	**automatic progression of results to web pages**					
	interrogate pipeline progress database and produce test web page summaries		STH			
3.6	**group documentation on pipeline infrastructure**					
	modify current documentation according to recommendations from stress tests.		JRL			
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**					
	tender for purchase and install data ingest server hardware/software		MTB			
	with JAC conduct tests on Ultrium tapes as transport medium		MTB			
6	**Run standard pipeline**	**2.5**				
7	**Development work for summit pipeline**	**1.0**				
7.1	**Interface test pipelines in ORAC-DR**					
	update and trial updated test pipelines		JRL			
7.2	**implement WFCAM pipeline at summit**					
	CVS deposit and trial test ORACDR pipeline at JAC		JRL			
7.3	**documentation for ORAC-DR interface**					
	continue to add to interface documentation as pipeline modules are written. These will appear in the CIRDR and ORACDR documentation sets		JRL			
8	**Development and testing of standard 2d processing**	**4.0**				
8.1	**further development of standard pipeline**					
	process night(s) of CIRSI data with pseudo trial WFCAM pipeline		JRL			
	rewrite routine for extraction of astrometric and photometric standards using 2MASS catalogue		JRL			
	deliver report on flatfielding and sky subtraction strategies		JRL			
	deliver new version of getstds		JRL			

	write updated wrapper for improved version of catalogue software		JRL			
8.2	**liaison with WFCAM development team**					
	assess engineering test data for reset anomaly, dark stability, cross-talk, image retention and linearity		JRL			
8.3	**partake in planning commissioning/characterisation observations**					
	together with ATC/JAC finish calibration plan		STH			
8.6	**documentation for 2D processing software**					
	drive test pipelines and update and deliver documentation as modules are written		JRL			
8.7	**Comparison between automated and manual data products**		STH			
9	**Development and testing of standard catalogue products**	**4.0**				
9.1	**add in new measures requested**					
	Produce first version of catalogue software with all extra measures		MJI			
9.2	**refine astrometric calibration model**					
	produce report on optical distortion simulations		MJI			
9.3	**generate model simulations of expected data**					
	further development of simulations		STH			
9.4	**assess catalogue parameter reliability**					
	run prototype pipeline on simulations and compare derived parameters with model data, write report		JMI			
9.5	**intercomparison of catalogue products with other packages**					
	agree detailed trials using INT WFC data and report on catalogue extraction and classification software comparisons		JMI			
9.7	**documentation of catalogue software and products**					
	update, fold in more detail and stress test		MJI			
10	**Setup trial and run further processing pipeline**	**3.0**				
11	**Photometric standards and calibration**	**3.0**				
11.1	**agree on primary standards**					
	investigate and report on narrow-band filter calibration options		STH			
11.2	**choose secondary standard fields**					
	incorporate feedback from working group on choice of secondary fields and update document		STH			

12	**Further development of DQC measures at summit and Cambr**	**2.0**				
12.3	**implement 2mass for throughput measurement**					
	extend tests to night(s) of pseudo WFCAM pipeline processed CIRSI data		JMI			
12.4	**master calibration frames for detector monitoring**					
	assess and report if current methods work on engineering WFCAM data		JRL			
13	**Co-located list driven photometry**	**3.0**				
13.2	**develop basic WCS-based list driven photometer**					
	investigate practicalities and implement agreed ICD for parameters		MJI			
14	**Stacking and mosaicing**	**4.0**				
14.1	**develop benchmark simple stacking/mosaicing framework**					
	bug fix and update as necessary		MJI			
14.2	**NN algorithm with simple rejection**					
	bug fix and update as necessary		MJI			
15	**Continuum subtraction and basic difference imaging**	**4.0**				
15.1	**write WCS-based difference imaging driver software**					
	bug fix and update as necessary		MJI			
15.2	**investigate and apply different interpolation methods**					
	compare different software packages for difference imaging and produce report		DWE			
16	**Interpolation techniques and PSF modeling**	**4.0**				
16.1	**investigate alternative interpolation/PSF schemes**					
	finish review and write short report on alternatives		DWE			
16.3	**implications for deriving catalogues and parameters**					
	assess and write report on errors in catalogue parameters arising from using different interpolation schemes		DWE			
16.4	**oversampled PSF generation per detector**					
	write first pass PSF generator using optical test data		DWE			