WP #	CASU WP name /sub task / 03Q4 deliverable	V.I.F.	name	date	end of month report
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**		**JRL**		paused
1.5	**define observing protocols**		STH		paused
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**				
	incorporate minor improvements prior to FDR		PSB		
2.2	**data reduction specification document**				
	produce first real draft of DRS document		PSB		
2.3	**calibration plan document**				
	incorporate draft plan for calibration fields		PSB		
2.5	**ICD ESO/VPO**				
	draft version of Data Interface dictionary - esp. FITS header specification		PSB		
	work on templates/Obs		PSB		
2.8	**liaise with VISTA IR camera development team**				
	check camera documentation for conflicts/issues		PSB		
3	**Pipeline infrastructure and pipeline progress monitoring tools**	3.5			
3.1	**interactive tools for running pipeline**		JRL		paused
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**				
	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**				
	install and test data ingest server hardware/software		MTB		
5.3	integrating and testing				
	install and test pipeline software		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		
	End-to-end comparitive pipeline tests (ORACDR/CASU/Starlink)		JRL		
	Demonstrate catalogue and non-catalogue DQCs		JRL		
7.3	**documentation for ORAC-DR interface**		JRL		
	continue to add to interface documentation as pipeline modules are written. These will appear in the CIRDR and ORACDR documentation sets				
8	**Development and testing of standard 2d processing**	**4.0**			
8.1	**further development of standard pipeline**				
	deliver report on flatfielding and sky subtraction strategies		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**		**STH**		paused
8.6	**documentation for 2D processing software**				
	updates docs as necessary and as a result of feedback		**JRL**		
8.7	**Comparison between automated and manual data products**				
	pipeline process FIRES data		**STH**		
	pipeline process UFTI data		**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**		**MJI**		paused
9.3	**generate model simulations of expected data**		**STH, JMI**		paused
9.4	**assess catalogue parameter reliability**		**JMI**		paused
9.5	**intercomparison of catalogue products with other packages**		**JMI**		paused
9.6	**Completeness and error estimates**		JMI		paused
9.7	**documentation of catalogue software and products**				
	update docs as necessary and as a result of feedback		**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		
	extend primary standards to VISTA		STH		
11.2	**choose secondary standard fields**				
	incorporate feedback from working group on choice of secondary fields and update document		STH		
	choose secondary standard fields for VISTA		STH		
11.7	assess extinction monitoring methods and develop measures				
	investigate UKIRT archive and write report		STH		
12	**Further development of DQC measures at summit and Cambr**	**2.0**			
12.3	**implement 2mass for throughput measurement**		**JMI**		paused
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		
13.4	externally driven WCS photometry and define parameter set				
	modify software to take external lists of positions and define parameter set		MJI		
14	**Stacking and mosaicing**	**4.0**			
14.1	**develop benchmark simple stacking/mosaicing framework**		**MJI**		complete
14.2	**NN algorithm with simple rejection**		**MJI**		complete
14.3	**More sophisticated rejection dealing with pixellation**				
	improve algorithms to deal with pixellation		**MJI**		
15	**Continuum subtraction and basic difference imaging**	**4.0**			
15.1	**Simple WCS-based subtraction techniques**		**MJI**		paused
15.2	**investigate and apply different interpolation methods**		**MJI**		paused
15.3	**develop adaptive kernel matching option**				
	improve CASU version and update difference imaging report		**MJI**		
16	**Interpolation techniques and PSF modeling**	**4.0**			
16.1	**investigate alternative interpolation/PSF schemes**				
	finish review and write short report on alternatives		DWE		
16.2	implications for different stacking methods				
	quantify effects of interpolation on stacked image quality		MJI		
16.3	**implications for deriving catalogues and parameters**				
	assess and write report on errors in catalogue parameters arising from using different interpolation and interleaving schemes		DWE		
16.4	**oversampled PSF generation per detector**				
	write first pass PSF generator using optical test data		DWE		