WP #	CASU WP name /sub task / 03Q4 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			
	prepare for and attend PPRP meeting in Feb		MJI + STH			
	define CASU programme for e-sciII bid		MJI + STH			
1.2	**interface control document between CASU and JAC**				completed	100
1.3	**interface control document between CASU and WFAU**				completed	100
1.4	**define data structures and FITS headers**				completed	50
1.5	**define observing protocols**					50
	define sensible range of suggested MSBs in conjunction with UKIDSS and JAC		MJI + STH			
1.6	**liaise with UKIDSS & JAC on observing strategy & survey planning**					60
	monitor progress		DWE			
1.7	**liaise with UKIDSS & JAC on VDFS products**					50
	monitor progress		DWE			
1.8	**liaise with UKIDSS and JAC on survey progress DB**					50
1.9	**system documentation**					50
	update and maintain web pages of system docs		DWE			
	write wrapper for WFCAM fits header for ESO		JRL			
2	**ESO VISTA software interface deliverables and documentation**	**4.0**				
2.1	**VDFS user requirements document**					50
	update & prepare for PDR		PSB			
2.2	**data reduction specification document**					50
	update & prepare for PDR		PSB			
2.3	**calibration plan document**					50
	update & prepare for PDR		PSB			
	report on QDITS & CPL -v- CASU module & CFITSIO		PSB			
2.5	**ICD ESO/VPO**					50
	update draft version of Data Interface dictionary - especially FITS header specification		PSB			
	work on templates/Obs		PSB			
	use ISAAC example for translating pipeline DID keywords to ESO style		PSB			
2.8	**liaise with VISTA IR camera development team**					50
3	**Pipeline infrastructure and pipeline progress monitoring tools**	**3.5**				
3.1	**interactive tools for running pipeline**		JRL		paused	75
3.2	**high level scripts to interrogate headers**		STH, JMI		paused	75
3.3	**automatic progression of results to web pages**		STH, JMI		paused	50

3.6	**group documentation on pipeline infrastructure**				40
	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**			paused	50
5.3	**integrating and testing**				50
	finish installing and testing pipeline and toolkit on data ingest server	MTB			
5.4	**Manage day-to-day maintenance and upgrades**				0
	upgrade remaining dvelopment PCs to Debian Linux OS	MTB			
6	**Run standard pipeline**	**2.5**			
7	**Development work for summit pipeline**	**1.0**			
7.1	**Interface test pipelines in ORAC-DR**			completed	100
7.2	**implement WFCAM pipeline at summit**				65
	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			60
	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**				75
	finish & deliver report on flatfielding and sky subtraction strategies	JRL			
	write updated wrapper for improved version of catalogue software	JRL			
	finish incorporating extra parameter measures	JRL			
8.2	**liaison with WFCAM development team**				25
	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	80
8.6	**documentation for 2D processing software**				50
	updates docs as necessary and as a result of feedback	JRL			
8.7	**Comparison between automated and manual data products**				50
	finish pipeline processing of FIRES data	STH			
	pipeline process UFTI data as it comes	STH			
9	**Development and testing of standard catalogue products**	**4.0**			
9.1	**add in new measures requested**				50
	test and debug new catalogue parameter measures	MJI			
9.2	**refine astrometric calibration model**	MJI		paused	75
9.3	**generate model simulations of expected data**	STH, JMI		paused	80
9.4	**assess catalogue parameter reliability**				70
	refine parameter error estimates and check for systematics in new parameters	JMI			
9.5	**intercomparison of catalogue products with other packages**	JMI		paused	60

9.6	**Completeness and error estimates**				50
	refine parameter error estimates and check for systematics	JMI			
9.7	**documentation of catalogue software and products**				50
	update catalogue products documentation	MJI			
10	**Setup trial and run further processing pipeline**	3.0			
10.2	**development and assessment of PSF options 1,2**				0
	produce prototype PSF fitting code level 1	MJI			
11	**Photometric standards and calibration**	3.0			
11.1	**agree on primary standards**				90
	complete narrow band filter calibration plan and update document	STH			
11.2	**choose secondary standard fields**				80
	incorporate feedback from working group on choice of secondary fields and update document	STH			
	complete choice of secondary standard fields for VISTA and update photometry document	STH			
11.7	**assess extinction monitoring methods and develop measures**				50
	complete investigation of UKIRT archive and write report	STH			
	prepare for calibration WG meeting and present report	STH			
12	**Further development of DQC measures at summit and Cambr**	2.0			
12.1	**develop extra systematic noise measures**				30
	linked with detector characterisation	MJI			
12.2	**Refine current measures for WFCAM/VISTA data**				30
	linked with detector characterisation	JRL			
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 data	JRL			
13	**Co-located list driven photometry**	3.0			
13.2	**develop basic WCS-based list driven photometer**				70
	investigate practicalities and implement agreed ICD for parameters	MJI			
13.3	**externally driven WCS photometry and define parameter set**				50
	refine, test and debug list-driven parameter estimator	MJI			
14	**Stacking and mosaicing**	4.0			
14.1	**develop benchmark simple stacking/mosaicing framework**		MJI	complete	100
14.2	**NN algorithm with simple rejection**		MJI	complete	100
14.3	**More sophisticated rejection dealing with pixellation**				50
	continue development of better spurion rejection allowing for pixellation	MJI			
15	**Continuum subtraction and basic difference imaging**	4.0			
15.1	**Simple WCS-based subtraction techniques**		MJI	completed	100
15.2	**investigate and apply different interpolation methods**		MJI	completed	100
15.3	**develop adaptive kernel matching option**				60
	continue debugging and enhancements to adaptive kernel package	MJI			

16	**Interpolation techniques and PSF modeling**		**4.0**			
16.1	**investigate alternative interpolation/PSF schemes**					50
	investigate PSF fitting algorithms and write report		DWE			
16.2	**implications for different stacking methods**					10
	quantify effects of interpolation on stacked image quality		MJI			
16.3	**implications for deriving catalogues and parameters**					50
	test profile fitting parameters and write report		DWE			
16.4	**oversampled PSF generation per detector**					10
	write first pass PSF generator using optical test data		DWE			