WP	CASU WP name /sub task / 03Q2 deliverable	name	weeks	end of quarter report	s/off	on-g
#						
1	**ESO VISTA software interface deliverables and documentation**					
		PSB	6			
2	**management and definition of project responsibilities**					
2.1	report to VISTA, UKIDSS, JAC, ATC, GSC					
	provide monthly reports on progress	MJI				
2.2	interface control document between CASU and JAC					
	finalise ICD with JAC after summit hardware review	MJI				
2.3	interface control document between CASU and WFAU					
	complete file transfer specification and finalise ICD	MJI				
2.4	define data structures and FITS headers					
	produce final agreed FITS header specification document	JRL				
	create example MEFs with agreed FITS headers and dummy WFCAM size data	JRL				
2.5	define observing protocols					
	formalise agreement on allowed observing protocols	STH				
2.6	liaise with UKIDSS & JAC on observing strategy					
	in consultation with UKIDSS, JAC, ATC produce draft observing plan	DWE				
2.7	liaise with UKIDSS & JAC on survey planning					
	help update UKIDSS diagrams and produce equivalent for 2 year plan	DWE				
2.8	liaise with UKIDSS and JAC on survey progress DB					
	work with JAC to resolve connectivity issues	JRL				
	create mirror copy of progress DB in Sybase	JRL				
3	**pipeline infrastructure and pipeline progress monitoring tools**					
3.2	high level scripts to interrogate headers					
	convert to work with expected WFCAM/VISTA data and modify output	STH				
3.6	group documentation on pipeline infrastructure					
	stress test documentation and update as necessary	JRL				
	write general infrastructure document (programmers manual)	JRL				
4	**set up and manage raw science archive**					
5	**set up and manage data processing system hardware**					
5.1	investigate hardware alternatives					
	write report on suggested hardware configuration for pipeline	MTB				
6	**run standard pipeline**					
7	**development work for summit pipeline**					
7.1	interface test pipelines in ORAC-DR					

	deliver updated set of routines and recipes to CVS at JAC	JRL				
	fix inconsistencies in current ORAC-DR recipes as per recommendations	JRL				
7.3	documentation for ORAC-DR interface					
	deliver updated documentation as development proceeds	JRL				
8	**development and testing of standard 2d processing**					
8.1	further development of standard pipeline					
	test alternative processing strategies, tabulate output changes	JRL				
	convert existing prototype modules for crosstalk correction	JRL				
	devise persistence correction strategies	JRL				
8.2	liaison with WFCAM development team					
	assess engineering test data for above problems and report	STH				
8.3	partake in planning commissioning observations					
	liaise with ATC/JAC and draw up draft plan emphasising calibration requirements	STH				
8.6	documentation for 2D processing software					
	stress test documentation and update as needed	JRL				
8.7	comparison between automated and manual data products					
	in collaboration with SJW trial UFTI/CIRPASS data through pipeline, compare with manually reduced data, write report	STH				
9	**development and testing of standard catalogue products**					
9.1	add in new measures requested					
	produce first version of catalogue software with extra measures	MJI				
9.3	generate model simulations of expected data					
	generate noisy (WFCAM/VISTA characteristics) images of simple objects (stars, ellipses) at the correct resolutions	STH				
	produce more detailed simulated UKIRT observations of high and low latitude fields	STH				
9.4	assess catalogue parameter reliability					
	run prototype pipeline on simulations and compare derived parameters with model data, write report	DWE				
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	STH				
9.7	documentation of catalogue software and products					
	produce draft document of above	MJI				
	stress test documentation and amend as necessary	STH				
10	**setup trial and run further processing pipeline**					

11	**photometric standards and calibration**					
11.1	agree on primary standards					
	investigate requirements for VISTA+WFCAM and possible shortcomings e.g. colour range	STH				
	in consultation produce draft list suitable for WFCAM and VISTA	STH				
11.2	choose secondary standard fields					
	find out which UKIDSS survey modes require these and in consultation with JAC+ATC propose secondary standard fields list	STH				
12	**further development of DQC measures at summit and Cambridge**					
12.3	implement 2mass for throughput measurement					
	produce prototype 2mass NIR data calibrator test on CIRSI data	MJI				
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**					
13.1	test methods for master catalogue generation					
	extend to include different wavebands, document	MJI				
13.2	develop basic WCS-based list driven photometer					
	extend above to WCS-based driven and deliver prototype to WFAU for evaluation	MJI				
14	**stacking and mosaicing**					
14.1	develop benchmark simple stacking/mosaicing framework					
	improve to account for new WCS framework	MJI				
14.2	NN algorithm with simple rejection					
	produce version updated with new WCS and deliver to WFAU	MJI				
15	**continuum subtraction and basic difference imaging**					
15.2	investigate and apply different interpolation methods					
	write WCS-based difference imaging driver software	MJI				
	write software using 16.1 to compare effect on difference imaging produce preliminary report	MJI				
16	**interpolation techniques and PSF modeling**					
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				