WP #	WP Title	Re		20	03	2004		workp 2005 ls			s	FT	FT	FT	þ	d			-	-	2	2	s	s	в	в	q	σ	<u>_</u> .	j	SIA		
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			JFM	AMJ	JAS ON	D JFN		IJ JA	AS ON) JFM	AMJ	JAS	OND	0.5				- 0.4															0-4
	Management and Definition of Responsibilities	MJI	 			=		=		_				0.5	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.1			0.2	0.2					_		3.0
1.1	Report to VISTA Board, GSC	MJI				_				_																				 ;			
1.2	Interface Control Document between CASU and JAC	MJI				_		_		_																							
1.3	Interface Control Document between CASU and WFAU	MJI				_				_																							
1.4	Define data structures and FITS headers	JRL				_				_																							
1.5	Define observing protocols	STH				_				_																							
1.6	Liaise with UKIDSS & JAC on observing strategy	DWE																															
1.7	Liaise with UKIDSS & JAC on survey planning	DWE																												;			
1.8	Liaise with UKIDSS & JAC on survey progress database	JRL				_				_																							
1.9	System Documentation	STH																															
2	ESO VISTA software deliverables and documentation	PSB				_				_				0.5	0.5														0.5	0.5			4.0
2.1	DFS user requirements document	PSB				_			_	_																							
2.2	Data reduction specification	PSB								_																							
2.3	Calibration plan document for ESO	PSB																															
2.4	Specification of calibration procedures for ESO	PSB																															
2.5	Interface control document ESO/VPO (Data Interface Dictionary)	PSB																															
2.6	Instrument specification and interface documents	PSB																															
2.7	Delivery software modules Exposure Time Calculator	PSB																															
2.8	Liase with VISTA IR camera development team	PSB																															
2.9	Development of DQC measures	PSB																															
3	Pipeline Infrastructure and Progress Monitoring Tools	JRL												0.4	0.3	0.2			0.2	0.1					0.1	0.1					0.1	0.1	3.5
3.1	Interactive tools for running pipeline	JRL																															
3.2	High level scripts to interrogate headers	STH																															
3.3	Develop automatic progression of results to WWW pages	STH																															
3.4	Automate checks to spot failures of pipeline	STH																															
3.5 [·]	Tools for fixing problem datasets	JRL																															
3.6	Group Documentation for above	JRL																															
3.7	Reprocessing after bug fixes or improvements to algorithms	RWA																															
4	Set up and Manage Raw Science Archive	RWA												0.1	0.1	0.1			0.1					0.1									0.0
4.1	Extend current UKIRT archive to cope with WFCAM	JRL								_																							
4.2	Ingest and verify WFCAM data	RWA																															
5	Set up and Manage Data Processing System Hardware	MTB								_				0.2	0.2	0.2											0.2	0.2			_		2.0
5.1	Investigate alternatives (benchmarking, reliability etc)	MTB					+	-	-	_																							
5.2	Buy hardware and install software	MTB					-			_																							
5.3	Integration and testing	MTB		_	_		F			-			_																		_		
5.4	Manage day-to-day, maintenance and upgrades	МТВ		_		-																											
5.5	Hardware additions for further data processing system	МТВ		_	_	=	+	-		-							_														_		
6	Run Standard Pipeline	RWA	Ħ				+	+				-	_	0.0	1.0	1.0	_	0.1		0.1				0.6		0.1				—	=	0.1	2.5
6.1	Ingest and verify data	RWA		-	_	=																									_		
6.2	Update master calibration frames	JRL	 ==†	-	-												=	_	—	=		 				_	_	-	_	=	_		
6.3	Monitor detector performance	JRL	 ==†	-	=												=		_	_		=									_		=
6.4	Oversee standard processing	RWA	 ==+	=	=												=			=		=		_				_		F	=	_	=
6.5	Astrometric calibration	DWE	=	_	=																									==	_		=
6.6	Photometric calibration	STH	 =+	-													=		_	=		=									=	_	
6.7	Verify science products and monitor DOC measures	RWA	 ==†	=	=														_	=		=									=	_	
6.0	Moniter.product.data transfer to WFAU	JRL	 ===	_	=						Dee	1					=		_	=		=				_	_		_	===	_		

7	Development Work for Summit Pipeline	IRI						wor	kpacka	ges.xls	0.2	0 1	0 1			0.2	0 1			 			 					1.0
7.1	Interface test ninelines to ORAC-DR	JRL		-	-	-	=		_	-										 			 		=	_	_	_
7.2	Implement WECAM pipeline at summit	JRL				=	=		=		_									 					==	=	_	=
7.3	Documentation of interface	JRL			====	=	=				_								_	 			 		==	=	_	=
7.4	Upgrade and maintain summit pipeline	JRL	 -	-							_								_	 					==	=	_	=
8	Development and Testing of Standard 2D Processing	STH	+			-		-			0.5	0.2	0.0			0.2	0.1	0.1	0.1	 	0.1		 		=	0.1		4.0
8.1	Eurther development of standard pipeline	JRL			_	=	=	_	_		=					_				 			 			_	_	=
82	Lisison with WECAM development team	JRI				=	_				_									 					==	=	_	=
8.3	Partake in planning commissioning observations	STH					-				_									 			 		==	_		_
8.4	Participate directly in commissioning	STH	 -				-				_									 			 		==	=	-	=
8.5	Tuning pipeline during commissioning	JRI	-				-	-	_											 			 		==	=	_	=
8.6		IPI									_					_				 					==	=	_	=
8.7	Comparison between automated and manual data products	STH	 -			-	=		_											 					==	=	_	=
<u>a</u>	Development and Testing of Standard Catalogue Products	DWE	-	-			_		_		0.5	0.2	0.0	01		0 1		0 1	0.1	 	0.2	0.1	 		==	=	_	4.0
0.1		MIL				=	_	=	_			0.2	0.0	0.1				0.1	0.1	 	0.2	0.1	 		==	=		=
9.1	Add in new measures requested	M	 -					=			_					_				 			 		==	_	_	_
9.2	Constrate model simulations of expected data	OTU						=			_									 			 		==	_	_	_
9.5						=	=				_									 			 		==	_	_	=
9.4	Assess catalogue parameter reliability	DWE									_									 			 		==	_		_
9.5	Intercomparison of catalogue products with other packages	SIH									_					_			_	 			 		==	_	_	_
9.6	Completeness and error estimates	MJI	 -					_			_						_			 			 		==	=	_	=
9.7	Documentation of catalogue software and products	MJI	 -	-				_								_			_	 			 		==	_	_	
10	Set up, Trial, and Run Further Processing Software	MJI	 -					_			0.1	0.4	1.5				0.1	0.1	0.1	 			 		==	_	0.2	3.0
10.1	Manage and run further processing stages	MJI						_			_									 					==	_	_	_
10.2	Development and assessment of PSF options 1,2	MJI						_			_									 			 		==	_		
10.3	Develop 1D/2D PSF-deconvolved Sersic profile fits	MJI						_			_									 			 		==	_		
10.4	Develop LSBG/nebulosity detection/parameterisation	MJI																		 								
10.5	Full iterative profile fitting for stellar images	TBD																		 			 					
10.6	Develop and optimise Bayesian image classification	TBD																		 								
10.7	Modelling and simulations of further processing steps	STH																										
11	Photometric Standards and Calibration	STH									0.2	0.3	0.1		0.1						0.2	0.2						3.0
11.1	Agree on primary standards	STH																										
11.2	Choose secondary standard fields	STH																										
11.3	Take part in commissioning observations	STH																										
11.4	Reduce data, compute zero points and colour equations	STH																										
11.5	Update, maintain and extend secondary standards system	STH																										
11.6	Investigate photometric calibration field systematics	STH																										
11.7	Assess extinction monitoring methods and develop measures	DWE																										
12	Further Development of DQC Measures at Summit and Cam	JRL									0.2	0.2	0.0			0.1	0.1	0.1	0.1									2.0
12.1	Develop extra systematic noise measures	MJI																										
12.2	Refine current measures for WFCAM/VISTA data	JRL																										
12.3	Implement 2MASS - cf. for throughput measures	MJI																		 			 			_		
12.4	Master calibration frames for detector monitoring	JRL																							==			
13	Co-Located List Driven Photometry	MJI									0.2	0.1	0.5					0.1	0.1				 			0.1		3.0
13.1	Test methods for master catalogue generation	MJI																							=	_		_
13.2	Develop basic WCS-based list driven photometer	MJI																							₱			_
13.3	Externally driven WCS photometry and define parameter set	MJI								-	_						_			 					₱	=	=	=
14	Stacking and Mosaicing	MJI	-							=	0.2	0.3	0.5				0.1	0.1	0.1	 				_	Ħ	0.1	0.1	4.0
14.1	Develop benchmark simple stacking/mosaicing framework	MJI	-	-		+	-			=	_						_			 					Ŧ		=	=
14.2	Nearest neighbour algorithm with simple rejection	MJI			\models		=			=	_									 					₱	=	=	=
14.3	More Sippoistitated inejection dealing with pixellation	MJI					-		Page	2	_			_			_			 					ŧ	=	23/	9/03

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14.4	Stacking with optimum weighting and defect rejection	MJI									worl	kpacka	iges.x	\$																			
14.5	Advanced stacking/image restoration for variable PSF	TBD																															
15	Continuum Subtraction and Basic Difference Imaging	STH												0.1	0.1	0.5		0.1			0.1												4.0
15.1	Simple WCS-based subtraction techniques	MJI																															
15.2	Investigate and apply different interpolation methods	DWE																															
15.3	Develop adaptive kernel matching option	TBD																															
15.4	Transient event detection	STH																															
16	Interpolation Techniques and PSF Modelling	DWE												0.4	0.2	0.0	0.4	0.2															4.0
16.1	Investigate alternative interpolation/PSF schemes	DWE																															
16.2	Implications for different stacking methods	DWE																															
16.3	Implications for deriving catalogues and parameters	DWE																															
16.4	Oversampled PSF generation per detector	DWE																															
16.5	Develop oversampled spatially varying PSF model	DWE																															
				1	İ	1		İ		İ				4.3	4.7	4.9	0.6	0.6	1.0	0.8	0.8	0.7	0.0	0.7	0.8	0.7	0.2	0.2	0.5	0.5	0.4	0.5	
																	dwe 2003	dwe 2004	jrl 2003	jrl 2004	mji 2003	mji 2004	rwa 2003	rwa 2004	sth 2003	sth 2004	mtb 2003	mtb 2004	psb 2003	psb 2004	mr new 2003	mr new 2004	
YEAR		1	DWE	JRL	MJI	МТВ	PSB	RWA	STH	NEW	Total																			mean			2.8
2003	VDFS funded		0.6	1	0.8	0.2	0.5		0.8	0.4	4.3																			mode			4.0
2004	VDFS funded		0.6	0.8	0.7	0.2	0.5	0.7	0.7	0.5	4.7																			media	n		3.0