		04	Q IIII3_cas	u_uenvera	ables.xis		
WP CASU WP na	ame /sub task / 04Q1 deliverable	V.I. F.	name	date	end of month report	%sub	% task
ŧ							l
	t and definition of project responsibilities	3.0					
	TA, UKIDSS, JAC, ATC, GSC						6
	httly meeting minutes, monthly reports on progress + quarterly s and planning		MJI + STH	31/01/04	reported minutes from CASU meetings. prepared documents for VDMT monthly meeting	10	
			MJI + STH	29/02/04	reported minutes from CASU meetings. prepared documents for VDMT monthly meeting	50	
			MJI + STH	31/03/04	reported minutes from CASU meetings, prepared documents for VDMT guarterly report	100	
prepare for ar	nd attend PPRP meeting in Feb		MJI + STH		prepared for PPRP meeting	50	
			MJI + STH	29/02/04	MJI gave presentation to PPRP	100	
define CASU	programme for e-scill bid		MJI + STH	31/01/04	CASU e-science II programme defined	100	
1.2 interface cor	ntrol document between CASU and JAC				completed		10
1.3 interface cor	ntrol document between CASU and WFAU				completed		10
1.4 define data s	structures and FITS headers				completed		10
							_
1.5 define obser							7
define sensib	le range of suggested MSBs in conjunction with UKIDSS and JAC	,	MJI + STH		MSB guidelines drawn up and sent to UKIDSS CSS for comment	50	
			MJI + STH	29/02/04	iterated on MSB guidelines with JAC and CSS	50	
			MJI + STH	31/03/04	CASU have signed off on MSB guidelines which are now in the hands of JAC. CSS will circulate these guidelines to survey heads for discussion and	100	
					comment.	100	
1.6 liaise with U	KIDSS & JAC on observing strategy & survey planning						7
monitor progr	ress		DWE	31/01/04	nothing to report	10	
			DWE	29/02/04	generated plots showing SDSS DR2 & 3 coverage w.r.t UKIDSS surveys. This has been posted on the UKIDSS www pages	50	
			DWE	31/03/04	nothing further to report	100	
1.7 liaise with U	KIDSS & JAC on VDFS products						
monitor progr	·		DWE	31/01/04	STH attended meeting with Casali & Warren and asked SJW to read JRL's report on UFTI processing and send feedback. STH suggested to SJW that a meeting be arranged in february to discuss processing issues.	10	
			DWE	29/02/04	see JRL's reports on processing issues	50	
			DWE	31/03/04	regular telecons held throughout quarter with JAC.	100	
1.8 liaise with U	KIDSS and JAC on survey progress DB		JRL		paused		5
1.9 system docu	Imentation			-			-
	naintain web pages of system docs		DWE	31/01/04	script for generating document www pages completed. awaiting internal review and feedback before pages go live. Document numbering now		
			DIME	00/00/04	almost complete.	50	
		$\pm$	DWE DWE	29/02/04 31/03/04	document numbering completed and web page live some more organisation and rationalisation	50 100	
write wrapper	for WFCAM fits header for ESO		JRL	31/01/04	no progress this month	0	
			JRL	29/02/04	draft sent to ESO, awaiting reply	50	
			JRL	31/03/04	completed	100	
2 ECO VICTA	software interface deliverables and documentation	4.0					
		4.0					
2.1 VDFS user re	equirements document						3

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update & prepare for PDR		PSB	31/01/04	WJS is collaborating in expanding/updating science requirements	10	
		PSB	29/02/04	Gave feedback to WJS on UK-VDFS first draft. Will incorporate parts of 2nd draft	50	
		PSB	31/03/04	User requirements document will be ready to submit to PDR after a final iteration	100	
2.2 data reduction specification document		202	0.1/0.1/0.1		40	3(
update & prepare for PDR		PSB	31/01/04	made a small amount of progress	10	
		PSB	29/02/04	no progress	10	
		PSB	31/03/04	DRS document completed and ready to submit to PDR subject to minor changes	100	
2.3 calibration plan document						6
update & prepare for PDR		PSB	31/01/04	no progress	0	
		PSB	29/02/04	studying FLAMES calibration plan document	10	
		PSB	31/03/04	significant work in the last month has finalised the calibration plan which is ready to submit to PDR bar last minute mods	100	
report on QFITS & CPL -v- CASU module & CFITSIO		PSB	31/01/04	JRL has extracted the CFITSIO functionality used in CIRDR and we have produced a comparison with QFITS/CPL for discussion at the next CASU meeting. This will lead to a section in the DRS	50	
		PSB	29/02/04	short report completed and presented to CASU meeting. More detailed report to be presented at VISTA camera-pipeline meeting and incorporated		
		PSB	31/03/04	into PDR documentation required FITS functionality included in PDR DRS and reported to VISTA	50	
				camera pipeline meeting	100	
2.5 ICD ESO/VPO						60
update draft version of Data Interface dictionary - especially FITS header specification		PSB	31/01/04	corrected HIREARCH keywords, generated full VISTA dummy FITS file, reviewed HOWFS DID	50	
Specification -		PSB	29/02/04	no progress	50	
		PSB	31/03/04	DID is updated including FITS header specs and included in PDR Cal Plan	100	
work on templates/Obs		PSB	31/01/04	template/obs: installed P2PP for training	10	
		PSB	29/02/04	studying P2PP OB generation, especially IMPEX	50	
		PSB	31/03/04	completed and included in PDR cal plan	100	
use ISAAC example for translating pipeline DID keywords to ESO style		PSB	31/01/04	no progress	0	
use isaac example for translating pipeline DID keywords to ESO style		PSB	29/02/04	no progress  Examined ISAAC keywords for sequencing and their appropriateness for	- 4	
			29/02/04	VISTA	10	
		PSB	31/03/04	jittering keywords converted to ISAAC style	50	
2.8 liaise with VISTA IR camera development team		PSB	31/01/04	Obtained access to ATC ESO W/S, ESO CMM. Reviewed data transfer	50	62
		PSB	29/02/04	issues with SMB Iterating towards camera PDR dates. Liasing on timestamps issue	50	
		PSB	31/03/04	Meeting held in Cambridge to discuss pipeline and camera issues. Weekly telecons held in run up to PDR document submission, plus frequent email	50	
				exchanges.	100	
3 Pipeline infrastructure and pipeline progress monitoring tools	3.5					
3.1 interactive tools for running pipeline		JRL	1	paused		5(
o. 1 interactive tools for running pipelific		JIL		padoca		J.
3.2 high level scripts to interrogate headers		STH, JMI		paused		5
3.3 automatic progression of results to web pages		STH, JMI		paused		5(
3.6 group documentation on pipeline infrastructure						55
modify current documentation according to recommendations from stress tests	S.	JRL	31/01/04	no progress		Ji
, in the second					0	
		JRL	29/02/04	no progress	U	

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		1	JRL	31/03/04	no progress - no input received	0	
	Cot un and manage you salence aughing	1					
4	Set up and manage raw science archive	0.0					
5	Set up and manage data processing system hardware	2.0					
	buy hardware and install	2.0	МТВ	1	paused		7
0.2	Day naraware and moun		IWITE		pauseu		-
5.3	integrating and testing						5
	finish installing and testing pipeline and toolkit on data ingest server		МТВ	31/01/04	installed, undergoing testing	50	
			MTB	29/02/04	finished testing	100	
5.4	Manage day-to-day maintenance and upgrades						2
	upgrade remaining dvelopment PCs to Debian Linux OS		MTB	31/01/04	all of the data development PCs have been successfully changed over to	100	
					Debian Linux OS	100	
G	Run standard pipeline	2.5					
0	Kun standard pipeline	2.5	<u> </u>	1			
7	Development work for summit pipeline	1.0					
	Interface test pipelines in ORAC-DR	1.0	JRL	1	completed		10
• • •	Interface test pipelines in ortho-bit		UIKE		Completed		
7.2	implement WFCAM pipeline at summit	1					7
	End-to-end comparitive pipeline tests (ORACDR/CASU/Starlink)		JRL	31/01/04	End-to-end comparative test completed between the two ORACDR UFTI		
					pipelines (Standard and CASU). Results written up and posted to		
					documentation www pages.	100	
			ID!	04/04/04			
	Demonstrate catalogue and non-catalogue DQCs		JRL	31/01/04	DQC estimates demonstrated in comparative test document. No more can be done with this now until we have real data	50	
			JRL	29/02/04	paused pending arrival of engineering data	50	
			JRL	31/03/04	still awaiting engineering data	50	
			0.12	0 1100101	din arrating originooning data		
7.3	documentation for ORAC-DR interface		JRL	31/01/04	paused		6
	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						8
	finish & deliver report on flatfielding and sky subtraction strategies		JRL	31/01/04	FIRES data is now fully reduced and a report is underway. two nights of the		
					UFTI service data were reduced using twilight (sunrise) flats. Results have	50	
			JRL	29/02/04	been written up and posted in public WFCAM doc area. sky subtraction paper written and posted in public WFCAM doc area	100	
		+	JIXL	29/02/04	sky subtraction paper written and posted in public Wi OAW doc area	100	
	write updated wrapper for improved version of catalogue software		JRL	31/01/04	no progress this month	0	
	The appared mapper for improved version or eathing to continue		JRL	29/02/04	updated catalogue generation routine nearly complete	50	
			JRL	31/03/04	completed	100	
					·		
_		_		_	no was group this mounth	_	
	finish incorporating extra parameter measures		JRL	31/01/04	no progress this month	0	
	finish incorporating extra parameter measures		JRL JRL	31/01/04 29/02/04	started	10	
	finish incorporating extra parameter measures		-				
			JRL	29/02/04	started	10	
8.2	liaison with WFCAM development team		JRL JRL	29/02/04 31/03/04	started good progress	10	
8.2	liaison with WFCAM development team assess engineering test data for reset anomaly, dark stability, cross-talk, image		JRL	29/02/04	started good progress  STH attended meeting with Casali and Warren to discuss status of camera	10	
8.2	liaison with WFCAM development team		JRL JRL	29/02/04 31/03/04	started good progress  STH attended meeting with Casali and Warren to discuss status of camera and plans for characterisation in the lab, and commissioning on the	10	
8.2	liaison with WFCAM development team assess engineering test data for reset anomaly, dark stability, cross-talk, image		JRL JRL	29/02/04 31/03/04	started good progress  STH attended meeting with Casali and Warren to discuss status of camera and plans for characterisation in the lab, and commissioning on the telescope. Report from this meeting discussed in CASU meeting and	10	
8.2	liaison with WFCAM development team assess engineering test data for reset anomaly, dark stability, cross-talk, image		JRL JRL JRL	29/02/04 31/03/04	started good progress  STH attended meeting with Casali and Warren to discuss status of camera and plans for characterisation in the lab, and commissioning on the	10 50	3
8.2	liaison with WFCAM development team assess engineering test data for reset anomaly, dark stability, cross-talk, image		JRL JRL JRL	29/02/04 31/03/04 31/01/04 29/02/04	started good progress  STH attended meeting with Casali and Warren to discuss status of camera and plans for characterisation in the lab, and commissioning on the telescope. Report from this meeting discussed in CASU meeting and minuted. No test data yet, but agreement reached that CASU will have access to these frames as they appear in the near future.  paused pending test data	10 50	3
8.2	liaison with WFCAM development team assess engineering test data for reset anomaly, dark stability, cross-talk, image		JRL JRL JRL	29/02/04 31/03/04 31/01/04	started good progress  STH attended meeting with Casali and Warren to discuss status of camera and plans for characterisation in the lab, and commissioning on the telescope. Report from this meeting discussed in CASU meeting and minuted. No test data yet, but agreement reached that CASU will have access to these frames as they appear in the near future.  paused pending test data still awaiting engineering data, but carried out tests on small sample of	10 50 10	3
8.2	liaison with WFCAM development team assess engineering test data for reset anomaly, dark stability, cross-talk, image		JRL JRL JRL	29/02/04 31/03/04 31/01/04 29/02/04	started good progress  STH attended meeting with Casali and Warren to discuss status of camera and plans for characterisation in the lab, and commissioning on the telescope. Report from this meeting discussed in CASU meeting and minuted. No test data yet, but agreement reached that CASU will have access to these frames as they appear in the near future.  paused pending test data	10 50	3

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8.6 documentation for 2D processing coffware		-				50
8.6 documentation for 2D processing software updates docs as necessary and as a result of feedback		JRL	31/01/04	no progress this month	0	
upuales docs as necessary and as a result of feedback		JRL	29/02/04	no progress this month	0	
		JRL	31/03/04	no progress	0	
		JIKE	31/03/04	no progress		
8.7 Comparison between automated and manual data products						75
finish pipeline processing of FIRES data		STH	31/01/04	as 8.1, pipeline processing finished	100	
The second secon				, , , , , , , , , , , , , , , , , , ,		
pipeline process UFTI data as it comes		STH	31/01/04	UFTI data processed up to date. No more service observations planned	100	
9 Development and testing of standard catalogue products	4.0	)	1			- 01
9.1 add in new measures requested		NA II	24/04/04	all of the new flow reserves have been tested and deburged	50	60
test and debug new catalogue parameter measures		MJI	31/01/04 29/02/04	all of the new flux measures have been tested and debugged parameter error analysis begun	50	
		MJI	31/03/04	no further progress this month	50	
		IVIJI	31/03/04	no turther progress this month	30	
9.2 refine astrometric calibration model		MJI		paused		80
3.2 Terme astrometric campitation model		IVIOI		pauseu		
9.3 generate model simulations of expected data		STH, JMI		paused		80
or gonorate mean emiliations of expected data		0111, 01111		paucou		
9.4 assess catalogue parameter reliability						70
refine parameter error estimates and check for systematics in new parameters		JMI		no progress		
· · · · · · · · · · · · · · · · · · ·					0	
		MJI	29/02/04	see 9.1	10	
		MJI	31/03/04	no further progress this month	10	
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		no progress	0	_
		MJI	29/02/04	see 9.1	10	
		MJI	31/03/04	no further progress this month	10	
9.7 documentation of catalogue software and products						55
update catalogue products documentation		MJI		no updates this month	0	
		MJI	29/02/04	no progress	0	
		MJI	31/03/04	minor updates incorporated	10	
10 Setup trial and run further processing pipeline	3.0	)				
development and assessment of PSF options 1,2						50
produce prototype PSF fitting code level 1		MJI	31/01/04	awaiting oversampled PSF generator	0	
		MJI	29/02/04	prototype code written	10	
		MJI	31/03/04	code tested	100	
44 Photographic standards and callbration		1				
11 Photometric standards and calibration 11.1 agree on primary standards	3.0	,				90
complete narrow band filter calibration plan and update document		STH	31/01/04	no progress	0	
complete narrow band liner campration plan and update document		STH	29/02/04	no progress	0	
		STH	31/03/04	no progress	0	
		3111	31/00/04	no progresso		
11.2 choose secondary standard fields						80
incorporate feedback from working group on choice of secondary fields and		STH	31/01/04	no progress		
update document					0	
		STH	29/02/04	some feedback from WJS being incorporated	10	
		STH	31/03/04	more discussions held with head of calibration working group, some		
		1		updates made to document	50	

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	complete choice of secondary standard fields for VISTA and update photometry document		STH	31/01/04	no progress	0	
	GOUTTON		STH	29/02/04	visual inspection and construction of finding charts for all standard fields nearing completion	50	
			STH	31/03/04	secondary standards and strategy chosen for VISTA and incorporated in PDR documentation. Updates made to photometry document - release waiting 11.1, 11.2	100	
					waiting 11.1, 11.2		
11.7	assess extinction monitoring methods and develop measures						50
	complete investigation of UKIRT archive and write report		STH	31/01/04	no progress	0	
			STH	29/02/04	analysis of data underway	50	
			STH	31/03/04	analysis incomplete - will finish next quarter	50	
	prepare for calibration WG meeting and present report		STH	29/02/04	no progress	0	
	prepare for calibration we meeting and present report		STH	31/03/04	no decision made on date for calibration WG meeting	0	
			0111	01700701	no designor made on date for earlier attentive mostling		
12	Further development of DQC measures at summit and Cambr	2.0					
12.1	develop extra systematic noise measures						50
	linked with detector characterisation		MJI	31/01/04	no progress, awaiting WFCAM data	0	
		_	MJI	29/02/04	no progress, awaiting WFCAM data	0	
			MJI	31/03/04	tested various options but final versions and algorithms awaiting WFCAM data	50	
40.0	Define assured the consumer for MICCAMAJICTA deta						20
12.2	Refine current measures for WFCAM/VISTA data linked with detector characterisation		JRL	31/01/04	paused, awaiting engineering data	0	
	IIIIKEU WILII UELECLOI CHAI ACLEHSALIOH		JRL	29/02/04	paused, awaiting engineering data	0	-
			JRL	31/03/04	still awaiting engineering data	0	
			OTTL	01700701	our awaiting originooning data		
2.3	implement 2mass for throughput measurement		JMI		paused		7
12.4	master calibration frames for detector monitoring						3
	assess and report if current methods work on engineering WFCAM data		JRL	31/01/04	still paused, no engineering data	0	
			JRL	29/02/04	still paused, no engineering data	0	
			JRL	31/03/04	still awaiting engineering data	0	
	Co-located list driven photometry	3.0	)				
3.2	develop basic WCS-based list driven photometer						9
	investigate practicalities and implement agreed ICD for parameters		MJI	31/01/04	code for generating the default CASU 32 parameter set has been written and tested	50	
			MJI	29/02/04	no further progress	50	
			MJI	31/03/04	code for generating extra parameters all written, still needs incorporating in list-driven photometry framework	50	
13.3	externally driven WCS photometry and define parameter set						7
.0.0	refine, test and debug list-driven parameter estimator		MJI	31/01/04	code for external list-driven photometry progressed to same stage as 13.2	50	
			MJI	29/02/04	no further progress	50	
			MJI	31/03/04	code for generating extra parameters all written, still needs incorporating in list-driven photometry framework	50	
14	Stacking and mosaicing	4.0	)				
	develop benchmark simple stacking/mosaicing framework		MJI	1	complete		100
14.2	NN algorithm with simple rejection		MJI		complete		100
14.3	More sophisticated rejection dealing with pixellation						6
	continue development of better spurion rejection allowing for pixellation		MJI	31/01/04	no progress this month	0	
			MJI	29/02/04	no progress this month	0	
		_	MJI	31/03/04	simple scheme for dealing with pixellation incorporated, improved scheme		

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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						80
	continue debugging and enhancements to adaptive kernel package		MJI	31/01/04	no progress this month	0	
			MJI	29/02/04	no bugs found. more tests done	50	
			MJI	31/03/04	further testing and debugging	100	
16	Interpolation techniques and PSF modeling	4.0					
	investigate alternative interpolation/PSF schemes	7.0					70
	investigate afternative interpolations of senemes		DWE	31/01/04	first version of list driven PSF photometry code completed. Currently		
	any congute i or many argentamic and white report		D	01/01/01	undergoing initial tests.	50	
			DWE	29/02/04	tests on simulated data complete	50	
			DWE	31/03/04	report half completed	50	
16.2	implications for different stacking methods						20
	quantify effects of interpolation on stacked image quality		MJI	31/01/04	no progress this month	0	
			MJI	29/02/04	no progress this month	0	
			MJI	31/03/04	no progress this month	0	
16.3	implications for deriving catalogues and parameters						70
	test profile fitting parameters and write report		DWE	31/01/04	no progress, awaiting 16.1	0	
			DWE	29/02/04	no progress, awaiting 16.1	0	
			DWE	31/03/04	included in report for 16.1	50	
16.4	oversampled PSF generation per detector						50
	write first pass PSF generator using optical test data		DWE	31/01/04	first-pass PSF generator written. Testing.	50	
	3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		DWE	29/02/04	tests on simulated data complete (simple model)	50	
			DWE	31/03/04	tests on real data reveal need for a more robust estimator. frist pass		
					generator completed and tested.	100	