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|-------------|--|------------|--------------|-------------|--|-------|-----------|
| WP | CASU WP name /sub_task / 05Q1 deliverable | V.I. F. | name | date | end of month report | %sub | % task |
| # | | • • | | | | 70000 | |
| | Management and definition of project responsibilities | 3.0 | | | | | |
| 1.1 | report to VISTA, UKIDSS, JAC, ATC, GSC | | | | | | 8 |
| | provide fornightly meeting minutes, monthly reports on progress + quarterly review reports and planning, attend VDUC meetings, have regular telecons with JAC, attend ESO VDFS FDR | | STH, MJI | 31-Jan-05 | held 2 telecons with JAC (last one included Simon Dye) and 2 CASU minuted meetings. MJI, PSB attended ESO VDFS FDR (STH, JRL via videocon) | 10 | |
| | prepare for and attend grant review | | STH, MJI | | no progress | 0 | |
| | | | | | | | <u> </u> |
| 1.2 | interface control document between CASU and JAC | | | | completed | | 10 |
| 1.3 | interface control document between CASU and WFAU | | | | completed | | 10 |
| | liaise with WFAU for design of VISTA ICD | | MJI | | | | |
| l.4a | define WFCAM data structures and FITS headers | | | | completed | | 10 |
| | | | | | · | | |
| .4b | update proposed VISTA FITS headers as necessary | | | | | | <u> </u> |
| .5a | define WFCAM observing protocols | | | | | | 8 |
| | monitor and help update MSB guidelines | | | | discussed MSB guidelines at last JAC telecon | 10 | |
| | check first pass survey MSBs | | STH | 31-Jan-05 | nothing to report | 10 | L |
| 5 1- | | | | | | | <u> </u> |
| .50 | define VISTA observing protocols help finish defining science and user requirements | | | 21 Jan 05 | PSB, MJI discussed VISTA observing protocols at FDR wrt potential | | <u> </u> |
| | | | 10151 + F 36 | 51-Jan-05 | science and user requirements | 10 | <u> </u> |
| .6a | liaise with UKIDSS&JAC on WFCAM obs strategy, surveys planning | | | | | | 8 |
| | liaise and monitor progress | | DWE | 31-Jan-05 | liaising via JAC telecons | 10 | L |
| 6h | liaise with Project Scientist on VISTA observing strategy & survey planning | | | | | | |
| .00 | naise with Project Scientist on VISTA observing strategy & survey planning | | | | | | |
| | liaise and monitor progress | | PSB | 31-Jan-05 | discussions of observing strategy and survey planning took place at FDR | 10 | |
| .7a | liaise with VDUC on VDFS products for WFCAM | | | | | | 8 |
| | liaise and monitor progress | | STH + MJI | 31-Jan-05 | nothing to report | 10 | |
| | prepare report on results from WFCAM comissioning | | JRL | 31-Jan-05 | version 0.5 of report on WFCAM commisioning -I released -II in preparation | 10 | |
| | involve Simon Dye with commissioning analysis progress | | JRL | 31-Jan-05 | SD spent 1 day with CASU and took WFCAM data home with him. Also involved SD in JAC telecons. | 10 | |
| | | | | | | | <u> </u> |
| .70 | liaise with VDUC on VDFS products for VISTA liaise and monitor progress | | | 31 Jan 05 | nothing to report | 10 | |
| | assess and prioritise work required for extra UK VDFS products | | | | no progress | 0 | |
| | prepare functional specification for UK review (see VDMT A0501-05) | | | | no progress | 0 | |
| | | | | | | | |
| | liaise with UKIDSS and JAC on survey progress DB | | | | | | 8 |
| | maintain OMP database mirror to be used with survey progress database, including user interface | | JRL | 31-Jan-05 | fixed problem with OMP database not updating with some JAC help. JRL provided SD with interface to CASU OMP database | 10 | |
| 1.9 | system documentation | | | | | | 8 |
| | update and maintain web pages of system docs | | DWE | 31-Jan-05 | documentation updated as necessary | 10 | <u> </u> |
| | ESO VISTA software interface deliverables and documentation | 4.0 | | | | | |
| 2.1 | VDFS user requirements document | | | | | | 7 |
| | respond to RIXs, update documents as appropriate | | PSB | 21 Jan 05 | responded to RIXs and submitted to FDR | 50 | 1 |

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|--|-----|------------|-------------|---|---------|----|
| 2.2 data reduction specification document | | | | | | 7 |
| respond to RIXs, update documents as appropriate | _ | PSB | 31-Jan-05 | responded to RIXs and submitted to FDR | 50 | |
| 2.2 solibustion plan desument | | | | | | 7 |
| 2.3 calibration plan document respond to RIXs, update documents as appropriate | | PSB | 31 Jan 05 | responded to RIXs and submitted to FDR | 50 | |
| | - | F SB | 51-5411-05 | | | |
| 2.4 Specification of calibration procedures for ESO | | | | subsumed into 2.3 | | |
| | | | | | | |
| 2.5 ICD ESO/VPO | | | | | | 6 |
| update FITS header docs and DID/DIC and submit data dictionary files for FDR, | | PSB | 31-Jan-05 | data dictionary files updated and submitted for FDR | 50 | |
| update as necessarv | - | | | | 50 | |
| 2.7 Delivery software modules for exposure time calculator | | | | | | |
| submit V1.0 with calculation forms for FDR | + | STH | 31-Jan-05 | V1.0 of ETC document submitted with calculation forms | 100 | |
| respond to RIXs, update document as appropriate | - | STH | | responded to RIXs | 50 | |
| debug and update ETC software modules | | MJI | | ETC updated and debugged. Modules will be converted to C | 50 | |
| | | | | | | |
| 2.8 liaise with VISTA IR camera development team | | | | | | 7 |
| continue liaising with VISTA IR camera development team | | PSB | 31-Jan-05 | very useful liaison at FDR | 10 | |
| | | | | | | |
| 2.9 Development of DQC measures | _ | | 24 15: 05 | reasonabled to DIVe and submitted to EDD | = | |
| respond to RIXs, update QC measures as required | | PSB | 31-Jan-05 | responded to RIXs and submitted to FDR | 50 | |
| 3 Pipeline infrastructure and pipeline progress monitoring tools | 3.5 | 5 | | | | |
| 3.1 interactive tools for running pipeline | | , | | | | 6 |
| develop tools and document | | JRL | 31-Jan-05 | continuing development in response to results of Phase I commissioning | | |
| | | 0.12 | 0.000 | data | 10 | |
| | | | | | | |
| 3.2 high level scripts to interrogate headers | | STH, JMI | | paused | | 5 |
| | | 0711 1111 | | | | |
| 3.3 automatic progression of results to web pages | | STH, JMI | | paused | | 5 |
| 3.4 automatic checks to spot failure of pipeline | - | JMI, STH | | paused | | |
| | - | | | | | |
| 3.5 Tools for fixing problem datasets | | JRL, JMI | | paused | | |
| | | | | | | |
| 3.6 group documentation on pipeline infrastructure | | | | | | 6 |
| stress test documentation and update as necessary | | STH, JRL | 31-Jan-05 | no progress | 0 | |
| | _ | | | | | |
| 3.7 Oversee reprocessing WFCAM data after bug fixes/improvements | _ | | | awaiting WFCAM science data | | |
| 4 Set up and manage raw science archive | 0.0 | | | | | |
| | 0.0 | , | | | | |
| 4.1 extend UKIRT archive to cope with WFCAM data | - | | | | | 5 |
| finish creating version 1 of WFCAM raw data archive | 1 | JRL | 31-Jan-05 | no progress | 0 | |
| | | | | | | |
| 4.2 Ingest and verify WFCAM data | | | | | | |
| | | | | much indigestion due to problems with FITS headers. MR is recreating | | |
| ingest and verify Phase I commissioning data | | JRL | 31-Jan-05 | | 50 | |
| ingest and verify Phase I commissioning data | | | | some test MEFs with fixes to the HDU probems | 50 | |
| | | JRL JRL | | | 50 0 | |
| ingest and verify Phase I commissioning data ingest and verify Phase II commissioning data | 2 (| JRL | | some test MEFs with fixes to the HDU probems | | |
| ingest and verify Phase I commissioning data | 2.(| JRL | | some test MEFs with fixes to the HDU probems | | |
| ingest and verify Phase I commissioning data ingest and verify Phase II commissioning data 5 Set up and manage data processing system hardware | 2.0 | JRL | | some test MEFs with fixes to the HDU probems awaiting Phase II commissioning | | 10 |
| ingest and verify Phase I commissioning data ingest and verify Phase II commissioning data 5 Set up and manage data processing system hardware | 2.(| JRL | | some test MEFs with fixes to the HDU probems | | 10 |
| ingest and verify Phase I commissioning data ingest and verify Phase II commissioning data 5 Set up and manage data processing system hardware 5.1 Investigate alternatives (benchmarking, reliability etc) | 2.0 | JRL | | some test MEFs with fixes to the HDU probems awaiting Phase II commissioning | | |
| ingest and verify Phase I commissioning data ingest and verify Phase II commissioning data | 2.0 | JRL | 31-Jan-05 | some test MEFs with fixes to the HDU probems awaiting Phase II commissioning | | 10 |

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|--|-----|-----------|-------------|--|-----------------|---|
| 5.3 integrating and testing | | | | | | 7 |
| integrate and test entire VDFS system | | PSB, JMI | 31-Jan-05 | no progress - awaiting move back to APM | 0 | |
| | _ | | | | $ \rightarrow $ | |
| 5.4 Manage day-to-day maintenance and upgrades | _ | | 04.1.05 | | 10 | |
| continue maintenance and upgrade programme | - | JMI, PSB | 31-Jan-05 | system being maintained and upgrades up-to-date | 10 | |
| C Due standard singling | 0.5 | | | | | |
| 6 Run standard pipeline | 2.5 | • | | | <u> </u> | |
| 6.1 Update WFCAM master calibration frames | - | | | | + | |
| ingest and verify WFCAM on-sky test data | | JRL,MJI | 31- Jan-05 | comm-I data is being used for master calibration frame tests | 10 | |
| | | | 51-5411-05 | | | |
| 6.2 Monitor detector performance WFCAM | | | | awaiting WFCAM science data | | |
| | | | | | | |
| 6.3 Oversee standard processing WFCAM | | | | awaiting WFCAM science data | | |
| | | | | | | |
| 6.4 Astrometric calibration WFCAM | | | | awaiting WFCAM science data | | |
| | | | | | | |
| 6.5 Photometric Calibration WFCAM | | | | awaiting WFCAM science data | | |
| | | | | | | |
| 6.6 Verify Science products and monitor DQC measures WFCAM | _ | | | awaiting WFCAM science data | | |
| | _ | | | | | |
| 6.7 Monitor data product transfer to WFAU | _ | | | awaiting WFCAM science data | | |
| | _ | | | | \rightarrow | |
| 6.8 Reprocess WFCAM data | _ | | | awaiting WFCAM science data | | |
| 7 Development work for summit pipeline | 1.0 | | | | | _ |
| 7.1 Interface test pipelines in ORAC-DR | 1.0 | JRL | | completed | <u> </u> | 1 |
| | - | JILL | | | | |
| 7.2a implement WFCAM pipeline at summit | | | | | | |
| demonstrate catalogue and non-catalogue DQCs | | JRL | 31-Jan-05 | investigations continuing using Nov 2004 data | 10 | |
| commissioning enhancements | | JRL | | nothing to report | 0 | |
| develop recipes for dealing with crosstalk, non-linearity, reset anomalies and | | JRL | | making good progress with investigations into detector "features" | | |
| persistence when test data on these effects become available | | | | ······································ | 10 | |
| | | | | | | |
| 7.3a documentation for ORAC-DR interface | _ | | | | | |
| update and deliver documentation as development proceeds | | JRL | 31-Jan-05 | documentation added to primitives as they have been written | 10 | |
| | | | | | | |
| 7.4a upgrade and maintain summit pipeline WFCAM | | | | | | |
| upgrade and maintain | | JRL | 31-Jan-05 | upgrades being added as data are analyzed | 10 | |
| | | | | | | |
| 8 Development and testing of standard 2d processing | 4.0 |) | | | | |
| 8.1a further development of standard pipeline for WFCAM | | | | | | |
| finish implementing new version of imcore to include full param set | | JRL | 31-Jan-05 | no further progress | 0 | |
| | | | | | | |
| 8.2a liaison with WFCAM development team | _ | | | | $ \rightarrow $ | |
| continue discussion on reset anomaly, crosstalk and linearity | | JRL | 31-Jan-05 | have held a lot of dicussion of various "features" and characterisation using | 10 | |
| assess science array test data for above problems and report | | JRL | 21 Jan 05 | the WFCAM commissioning data reset anomlay and linearity much better understood now. Commisioning | | |
| | | JKL | 51-Jan-05 | reports in preparation (see version 0.5 of Phase I) | 10 | |
| | | | | | | |
| 8.2b liaison with Project Scientist & VISTA development team | | | | | | |
| assess any new detector engineering test data | | MJI | 31-Jan-05 | no new data yet, but some progress on this following FDR | 10 | |
| | | | | | | |
| 8.3a partake in planning WFCAM commissioning observations | | | | | | |
| continue liaising with ATC/JAC | | STH | 31-Jan-05 | planned visits to JAC by JRL and STH in March | 10 | |
| | | | | | | |
| 8.3b partake in planning VISTA comissioning observations | | | | | | |
| liaise and discuss with camera PS and VISTA PS | | STH | 31-Jan-05 | nothing to report | 10 | |
| | | | | | | |
| | | | | | | - |

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|---|-----|-----------|-------------|---|------|----------|
| 8.4a Participate directly in commissioning WFCAM | | | | | | |
| take part in second stage of WFCAM on-sky commissioning | | JRL, STH | 31-Jan-05 | provisional arrangements made for STH and JRL to take part in WFCAM comm-II | 0 | |
| 0.5 Tuning signifies during complexity in and offer | | | | | | |
| 8.5 Tuning pipeline during commissioning and after use commissioning data to tune processing strategy | | MJI | 21 100 05 | WFCAM commissioning data is yielding interesting insights for tuning | | |
| | | IVIJI | 51-Jan-05 | processing | 10 | |
| assess the quality and stability of the master calibration data | | JRL | 31-Jan-05 | quality and stability assessment begun | 10 | |
| | | | | | | |
| 8.6 documentation for 2D processing software | | | | | | 5 |
| updates docs as necessary | | JRL | 31-Jan-05 | no progress | 0 | |
| | | | | | | |
| 8.7 Comparison between automated and manual data products | | | | | | 7 |
| compare FIRES with published results and write report | | STH | 31-Jan-05 | no progress | 0 | <u> </u> |
| assess CASU processed WFCAM commissioning data in conjunction with CSV | | STH | 31-Jan-05 | reported status of commissioning data to Simon Dye and supplied him with WFCAM fits files | 10 | |
| 9 Development and testing of standard catalogue products | 4.0 |) | | | | - |
| 9.1 add in new measures requested | | | | | | 6 |
| finish testing and debugging new catalogue parameter measures | | MJI | 31-Jan-05 | no progress | 0 | |
| | | | | | | |
| 9.2 refine astrometric calibration model | | MJI | 31-Jan-05 | refined using comm-I data - see report | 50 | 8 |
| | | | | | | |
| 9.3 generate model simulations of expected data | | STH, JMI | | finished | | 10 |
| | | | | | | |
| 9.4 assess catalogue parameter reliability | | | | | | 7 |
| refine parameter error estimates and check for systematics in new params, finish in coniunction with 9.1 | | MJI | 31-Jan-05 | no progress | 0 | |
| 9.5 intercomparison of catalogue products with other packages | | JMI | | stopped - subsumed into 9.4 | | 6 |
| 9.6 Completeness and error estimates | | | | | | |
| design and report on completeness model | | MJI | 31-Jan-05 | no progress | 0 | |
| | | | | | | 5 |
| 9.7 documentation of catalogue software and products | | NA 11 | 21 100 05 | | 0 | |
| update catalogue products documentation | - | MJI | 3 I-Jan-05 | no progress | 0 | |
| 10 Setup trial and run further processing pipeline | 3.0 |) | | | | |
| 10.1 Manage and run further processing stages | | | | placeholder (start in Q3) | | <u> </u> |
| | | | | | | |
| 10.2 development and assessment of PSF options 1,2 | | | | | | 5 |
| produce prototype for PSF level 2 | | MJI | 31-Jan-05 | no progress | 0 | |
| | | | | | | |
| 10.3 develop 1D/2D PSF-deconvolved Sersic profile fits | | | | paused awaiting real WFCAM data (start in Q2) | | |
| 10.4 Develop LSBG/nebulosity detection/parameterisation | | | | placeholder (start in Q2) | | |
| 10.5 Full iterative profile fitting for stellar images | | | | paused | | |
| | | | | | | |
| 10.6 Develop and optimize Bayesian image classification | | | | placeholder (start in Q2) | | |
| 10.7 Modelling and simulations of further processing steps | 1 | | | placeholder (start in Q2) | | |
| | | | | | | |
| 11 Photometric standards and calibration | 3.0 |) | | | | |
| 11.1 agree on primary standards | | | | | | 9 |
| complete narrow band filter calibration plan and update document | | STH | 31-Jan-05 | no progress | 0 | <u> </u> |
| 11.2 change accordant standard fields | + | | | | | 8 |
| 11.2 choose secondary standard fields | | | I | | | <u> </u> |

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|--|---|--|---|---|--|---|
| refine/shorten list | <u> </u> | STH | 31-Jan-05 | no progress | 0 | |
| take part in commissioning observations WFCAM | + | <u> </u> | | | | |
| | | JRI STH | 31-Jan-05 | march | 0 | |
| | | <u> </u> | 01.00 | | - | |
| Reduce data, compute zero points and colour equations WFCAM | | | | | | |
| compute ZPs from comissioning data | | STH | | | 50 | |
| neasure colour terms relative to 2mass | <u> </u> | STH | 31-Jan-05 | and colour equations | 50 | |
| Indate maintain and extend accordance to devide evolution | — | | | | | |
| | + | сти | 31 Jan 05 | no progress | 0 | |
| | + | | 31-Jan-05 | | 0 | |
| nvestigate photometric calibration field systematics WFCAM+VISTA | - | | | | | |
| nvestigate photometric calibration systematics - use 2MASS to check global | | STH | 31-Jan-05 | no progress | - | |
| systematics | <u> </u> | | | | 0 | |
| | + | | | | | 50 |
| Issess extinction monitoring methods and develop measures | + | STH | 31- Jan-05 | 2MASS successfully used to monitor WECAM extinction (See Commisioning | | 50 |
| accuracy | | | 51-5411-05 | | 50 | |
| | | | | | | |
| | 2.0 | <u> </u> | 1 | | | |
| | <u> </u> | | 04.1.05 | | 10 | 50 |
| rial using WFCAM commissioning data | | MJI | 31-Jan-05 | trialling begun using WFCAM commissioning data | 10 | |
| Refine current measures for WECAM/VISTA data | + | + | | | | 20 |
| | | JRL | 31-Jan-05 | trialling begun using WECAM commissioning data | 10 | |
| | | | 0.000 | and any sogar any the an of the contraction of a data | | |
| mplement 2mass for throughput measurement | | | | | | 75 |
| mplement local access version at summit | | JRL | 31-Jan-05 | no progress | 0 | |
| | | | | | | |
| naster calibration frames for detector monitoring | | | 04.1.05 | | | 35 |
| assess and report using commissioning data | | JRL | 31-Jan-05 | no progress | 0 | |
| Co-located list driven photometry | 3.0 |) / | | | | |
| | | | | | | |
| est methods for master catalogue generation | +- | | | completed | | 100 |
| develop basic WCS-based list driven photometer | | | | | | |
| | | | | | | 90 |
| | + | MII | 31-Jan-05 | no progress | | 90 |
| extend to full 80 parameter set | + | MJI | 31-Jan-05 | no progress | | 90 |
| | + | MJI | 31-Jan-05 | no progress | | 90 |
| extend to full 80 parameter set | | MJI MJI MJI | | no progress no progress | | |
| extend to full 80 parameter set externally driven WCS photometry and define parameter set extend to full 80 parameter set | | MJI | | | | |
| extend to full 80 parameter set externally driven WCS photometry and define parameter set extend to full 80 parameter set Stacking and mosaicing | 4.0 | MJI | | no progress | | 75 |
| extend to full 80 parameter set externally driven WCS photometry and define parameter set extend to full 80 parameter set | | MJI | | | | |
| extend to full 80 parameter set externally driven WCS photometry and define parameter set extend to full 80 parameter set Stacking and mosaicing develop benchmark simple stacking/mosaicing framework | 4.0 | MJI MJI MJI | | no progress | | 75 |
| extend to full 80 parameter set externally driven WCS photometry and define parameter set extend to full 80 parameter set Stacking and mosaicing | 4.0 | MJI | | no progress | | 75 |
| extend to full 80 parameter set externally driven WCS photometry and define parameter set extend to full 80 parameter set Stacking and mosaicing develop benchmark simple stacking/mosaicing framework | 4.0 | MJI MJI MJI | | no progress | | 75 |
| extend to full 80 parameter set externally driven WCS photometry and define parameter set extend to full 80 parameter set Stacking and mosaicing develop benchmark simple stacking/mosaicing framework NN algorithm with simple rejection More sophisticated rejection dealing with pixellation | 4.0 | MJI MJI MJI MJI | | completed | | 75 100 100 |
| externally driven WCS photometry and define parameter set externally driven WCS photometry and define parameter set Extend to full 80 parameter set Stacking and mosaicing develop benchmark simple stacking/mosaicing framework NN algorithm with simple rejection More sophisticated rejection dealing with pixellation Stacking with optimum wighting and defect rejection | 4.0 | MJI MJI MJI MJI | 31-Jan-05 | no progress completed completed completed | | 75 100 100 |
| extend to full 80 parameter set externally driven WCS photometry and define parameter set extend to full 80 parameter set Stacking and mosaicing develop benchmark simple stacking/mosaicing framework NN algorithm with simple rejection More sophisticated rejection dealing with pixellation | 4.0 | MJI MJI MJI MJI | 31-Jan-05 | completed | | 75 100 100 |
| externally driven WCS photometry and define parameter set externally driven WCS photometry and define parameter set Stacking and mosaicing develop benchmark simple stacking/mosaicing framework NN algorithm with simple rejection More sophisticated rejection dealing with pixellation Stacking with optimum wighting and defect rejection refine and test current seeing weighting method on FIRES data | 4.0 | MJI MJI MJI MJI | 31-Jan-05 | no progress completed completed completed | | 75 100 100 |
| extend to full 80 parameter set externally driven WCS photometry and define parameter set extend to full 80 parameter set Stacking and mosaicing develop benchmark simple stacking/mosaicing framework NN algorithm with simple rejection More sophisticated rejection dealing with pixellation Stacking with optimum wighting and defect rejection refine and test current seeing weighting method on FIRES data Advanced stacking/image restoration for variable PSF | 4.0 | MJI MJI MJI MJI MJI MJI | 31-Jan-05 | no progress completed completed no progress | | 75 100 100 |
| externally driven WCS photometry and define parameter set externally driven WCS photometry and define parameter set Stacking and mosaicing develop benchmark simple stacking/mosaicing framework NN algorithm with simple rejection More sophisticated rejection dealing with pixellation Stacking with optimum wighting and defect rejection refine and test current seeing weighting method on FIRES data | 4.0 | MJI MJI MJI MJI MJI MJI | 31-Jan-05 | no progress completed completed completed | | 75 100 100 |
| extend to full 80 parameter set externally driven WCS photometry and define parameter set extend to full 80 parameter set Stacking and mosaicing develop benchmark simple stacking/mosaicing framework NN algorithm with simple rejection More sophisticated rejection dealing with pixellation Stacking with optimum wighting and defect rejection refine and test current seeing weighting method on FIRES data Advanced stacking/image restoration for variable PSF | 4.0 | MJI MJI MJI MJI MJI MJI MJI | 31-Jan-05 | no progress completed completed no progress | | 75 100 100 |
| | wompute ZPs from comissioning data neasure colour terms relative to 2mass Jpdate, maintain and extend secondary standards system neegin building secondary standard fields system nvestigate photometric calibration field systematics WFCAM+VISTA nvestigate photometric calibration systematics - use 2MASS to check global wstematics ussess extinction monitoring methods and develop measures use 2MASS comparison to get first order estimate and assess expected ucuracy wther development of DQC measures at summit and Cambr levelop extra systematic noise measures rial using WFCAM commissioning data Refine current measures for WFCAM/VISTA data rial using WFCAM commissioning data mplement 2mass for throughput measurement mplement local access version at summit naster calibration frames for detector monitoring ussess and report using commissioning data | Reduce data, compute zero points and colour equations WFCAM compute ZPs from comissioning data neasure colour terms relative to 2mass Jpdate, maintain and extend secondary standards system begin building secondary standard fields system neestigate photometric calibration field systematics WFCAM+VISTA nvestigate photometric calibration systematics - use 2MASS to check global evetematics resess extinction monitoring methods and develop measures use 2MASS comparison to get first order estimate and assess expected accuracy curther development of DQC measures at summit and Cambr rial using WFCAM commissioning data Refine current measures for WFCAM/VISTA data rial using WFCAM commissioning data mplement local access version at summit master calibration frames for detector monitoring ussess and report using commissioning data Co-located list driven photometry 3.0 | Reduce data, compute zero points and colour equations WFCAM STH compute ZPs from comissioning data STH neasure colour terms relative to 2mass STH Jpdate, maintain and extend secondary standards system STH uegin building secondary standard fields system STH nvestigate photometric calibration field systematics WFCAM+VISTA STH nvestigate photometric calibration systematics - use 2MASS to check global STH ussees extinction monitoring methods and develop measures STH ussee 2MASS comparison to get first order estimate and assess expected STH ccuracy STH wellow extra systematic noise measures MJI Refine current measures for WFCAM/VISTA data MJI rial using WFCAM commissioning data JRL mplement 2mass for throughput measurement JRL mplement local access version at summit JRL co-located list driven photometry 3.0 | Reduce data, compute zero points and colour equations WFCAM STH 31-Jan-05 wompute ZPs from comissioning data STH 31-Jan-05 Ipdate, maintain and extend secondary standards system STH 31-Jan-05 Ipdate, maintain and extend secondary standards system STH 31-Jan-05 Ipdate, maintain and extend secondary standards system STH 31-Jan-05 Investigate photometric calibration field systematics WFCAM+VISTA Nestigate photometric calibration systematics - use 2MASS to check global STH 31-Jan-05 Investigate photometric calibration systematics - use 2MASS to check global STH 31-Jan-05 Investigate photometric calibration systematics - use 2MASS to check global STH 31-Jan-05 Insees 2MASS comparison to get first order estimate and assess expected STH 31-Jan-05 Incurrent measures for WFCAM/VISTA data MJI 31-Jan-05 Refine current measures for WFCAM/VISTA data Implement JRL 31-Jan-05 Implement 2mass for throughput measurement JRL 31-Jan-05 JRL 31-Jan-05 Implement local access version at summit JRL 31-Jan-05 JRL 31-Jan-05 Implement local access version at summit JRL 31-Ja | Reduce data, compute zero points and colour equations WFCAM STH 31-Jan-05 2MASS used to generate first pass zeropoints compute ZPs from comissioning data STH 31-Jan-05 and colour equations pdate, maintain and extend secondary standards system STH 31-Jan-05 no progress pdate, maintain and extend secondary standards system STH 31-Jan-05 no progress nvestigate photometric calibration field systematics WFCAM+VISTA no progress Not progress rvestigate photometric calibration systematics - use 2MASS to check global systematics. STH 31-Jan-05 no progress sesses extinction monitoring methods and develop measures see 2MASS comparison to get first order estimate and assess expected coursev STH 31-Jan-05 no progress suther development of DQC measures at summit and Cambr 2.0 2.0 2.0 ferlie current measures for WFCAM/VISTA data MJI 31-Jan-05 trialling begun using WFCAM commissioning data midusing WFCAM commissioning data JRL 31-Jan-05 trialling begun using WFCAM commissioning data mplement local access version at summit JRL 31-Jan-05 trialling begun using WFCAM commissioning data mplement local access version at summit JRL | Reduce data, compute zero points and colour equations WFCAM STH 31-Jan-05 2MASS used to generate first pass zeropoints 50 compute ZPs from comissioning data STH 31-Jan-05 and colour equations 50 pdate, maintain and axtend secondary standards system STH 31-Jan-05 and colour equations 50 pdate, maintain and axtend secondary standards system STH 31-Jan-05 no progress 0 nvestigate photometric calibration field systematics - use 2MASS to check global vstematics STH 31-Jan-05 no progress 0 sesses extinction monitoring methods and develop measures is 2MASS comparison to get first order estimate and assess expected couracy STH 31-Jan-05 2MASS succesfully used to monitor WFCAM extinction (See Commissioning brace I report) 50 setther development of DQC measures at summit and Cambr Z.0 20 |

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|------|--|-----|----------|---|----|-----|
| 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-Jan-05 no progress | | |
| | | | | | | |
| 15.4 | transit event detection | | | | | 0 |
| | continue with WASP, INT WFC and APT datasets | | STH | 31-Jan-05 good progress with lightcurve generation tests for a variety of systems | 10 | |
| 40 | Internalation techniques and BSE medaling | 4.0 | | | | |
| | Interpolation techniques and PSF modeling | 4.0 | , | | | 400 |
| 16.1 | investigate alternative interpolation/PSF schemes | _ | | completed | | 100 |
| 40.0 | implications for different starbing methods | | | neurod qualting store II of MECAM commissioning | | 20 |
| 16.2 | implications for different stacking methods | | | paused awaiting stage II of WFCAM commissioning | | |
| 16.3 | implications for deriving catalogues and parameters | + | | | | 70 |
| | finish development and testing of astrometric refinement code | | DWE | 31-Jan-05 Phase 2 report of PSF fitting released - see | | |
| | | | | http://www.ast.cam.ac.uk/vdfs/docs/reports/psf2/ | | |
| 16.4 | overcompled DSE generation ner detector | | | finished | | 100 |
| 10.4 | oversampled PSF generation per detector | | | Infished | | 100 |
| 16.5 | develop oversampled spatially varying PSF model | 1 | | | | 0 |
| | finish development of spatially varying PSF model | | DWE | 31-Jan-05 awaiting Phase-II commissioning data | 0 | |
| | final tuning on WFCAM on-sky data | | DWE | 31-Jan-05 awaiting Phase-II commissioning data | 0 | |
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