| | Tananananan na manananan na mananan na manan | 1 | | | | ın_ae | | _ | I _ | |
|------|--|---------------|------|------|------|-------|----------|----------|--------|---|
| | CASU WP name /sub_task /Jun 2007 deliverables | Staff | | | | | | | | Textual Summary |
| # | | | 05Q1 | 05Q3 | 06Q1 | 06Q3 | Apr-07 | May-07 | Jun-07 | |
| 1 | Management and definition of project responsibilities | | | | | | | | | |
| 1.1 | report to VISTA, UKIDSS, JAC, ATC, GSC | all | 17 | 34 | 52 | 70 | 91 | 94 | 97 | , <u> </u> |
| | provide fortnightly meeting minutes, monthly reports on progress + quarterly review reports and planning. Produce draft functionality document for VDMT & VDUC. Have telecons as required with JAC | | | | | | | | | held minuted CASU meetings. Significant work preparing the CASU rolling grant bid, preparing and reporting to VDUC and to the UKIRT board. |
| 1.2 | interface control document between CASU and JAC | MJI | 100 | 100 | 100 | 100 | 100 | 100 | 100 | completed |
| 4.0 | | | 400 | 400 | 400 | 400 | 400 | 400 | | |
| 1.3a | interface control document between CASU and WFAU (WFCAM) | MJI | 100 | 100 | 100 | 100 | 100 | 100 | 100 | completed |
| 1.3b | interface control document between CASU and WFAU (VISTA) | PSB | 0 | 0 | 0 | 30 | 60 | 65 | 67 | , |
| | liaise with WFAU, camera and telescope team for design of VISTA FITS headers for input to ICD | | | | | | | | | Interacted with ATC, Edinburgh CS, Cambridge CS & UKERNA regarding UKLight networking. |
| 1.4a | define WFCAM data structures and FITS headers | MJI, JRL, PSB | 100 | 100 | 100 | 100 | 100 | 100 | 100 | completed |
| | | | | | | | | | | |
| 1.4b | update proposed VISTA FITS headers as necessary | PSB | 10 | 30 | 40 | 55 | 65 | 67 | 67 | |
| | monitor and update proposed VISTA FITS headers. give feedback on test FITS files. test conformance of output FITS files with ICD. | | | | | | | | | no further progress |
| 1.5a | define WFCAM observing protocols | STH, DWE | 55 | 70 | 75 | 90 | 100 | 100 | 100 | completed |
| | monitor and update MSB guidelines. monitor observing efficiency and report. | , | | | | | | | | |
| 1.5b | define VISTA observing protocols | PSB | 15 | 25 | 30 | 30 | 40 | 45 | 45 | |
| | liaise with development team | | | | | | | | | no further progress |
| 1.6a | liaise with UKIDSS&JAC on WFCAM obs strategy, surveys planning | STH | 40 | 60 | 70 | 80 | 95 | 97 | 97 | |
| 1.00 | liaise and monitor progress | | 10 | 00 | 7.0 | | | | 01 | no further progress |
| 1.6b | liaise with Proj. Sci. on VISTA observing strategy & survey planning | PSB | 17 | 34 | 52 | 70 | 85 | 87 | 87 | |
| | liaise and monitor progress | | | | | | | | | no further progress |
| 1.7a | liaise with VDUC on VDFS products for WFCAM | STH, MJI, JRL | 50 | 60 | 70 | 80 | 95 | 95 | 95 | |
| | liaise and monitor progress. finalise reports on results from WFCAM 05A SV data. Provide input for UKIDSS papers. Respond to issues raised re: data processing | | | | | | | | | nothing to report |
| 1.8a | liaise with UKIDSS and JAC on survey progress DB (WFCAM) | JRL | 50 | 55 | 60 | 65 | 85 | 85 | 85 | |
| | maintain OMP database mirror to be used with survey progress database, incl. simplified user interface and script to add MSB flags to processed data headers | | | | | | | | | no further progress. Work to improve the database to allow for the unambiguous identification of problem datasets is waiting for work to be finished at JAC |
| 1.8b | liaise with VDUC and ESO on survey progress DB (VISTA) | | 0 | 0 | 0 | 10 | 20 | 20 | 20 | |
| | | | | | | | | | | no further progress |
| 1.9 | system documentation | DWE,EGS,MR | 17 | 34 | 52 | 70 | 91 | 93 | 95 | |
| | update and maintain web pages of system docs. Setup and switch over to new plone system | . , | | | | | | | | ongoing |
| 1.10 | VST processing preparation | EGS. MJI | 0 | 15 | 25 | 35 | 60 | 60 | 60 | |
| | help produce draft Survey Management Plan for ATLAS, VPHAS+ | / | | | | | | | | on hold |
| 2 | ESO VISTA software interface deliverables and documentation | | | | | | | | | |
| 2.1 | DFS impact document | PSB | 70 | 95 | 100 | 100 | 100 | 100 | 100 | signed and sealed |
| | assess if further changes needed after tests | - | | | | | | | | |
| 2.2 | Calibration Plan document | PSB | 70 | 95 | 95 | 96 | 97 | 97 | 97 | , |
| | Land and the second sec | | | | | | <u> </u> | <u> </u> | | I . |

| update document in parallel with DRL development. Get c1.2 signed by PS, PI 2.3 Data Reduction Library Design document update document in parallel with DRL development PSB 70 95 96 97 97 update document in parallel with DRL development brought up to date, tidied and 2.5 ICD ESO/VPO update FITS header doc and DID/DIC and data dictionary files no further progress | or VDFS 0.5 release d passed to JPE for VDFS 0.5 release |
|--|--|
| update document in parallel with DRL development brought up to date, tidied and 2.5 ICD ESO/VPO PSB 0 10 15 25 35 40 40 | d passed to JPE for VDFS 0.5 release |
| 2.5 ICD ESO/VPO PSB 0 10 15 25 35 40 40 | d passed to JPE for VDFS 0.5 release |
| | |
| update FITS header doc and DID/DIC and data dictionary files no further progress | |
| | |
| 2.6 Instrument specification and interface documents PSB 0 6 10 40 70 70 70 | |
| develop integration tests in CPL & QFITS environment no further progress | |
| 2.7 Delivery software modules for exposure time calculator STH, PSB 20 90 95 96 97 97 97 | |
| setup UK-based demonstration of ETC. Update ETC with better characteristic data. Deliver ETC calculation modules and instrument description data to ESO no further progress | |
| 2.8 liaise with VISTA IR camera development team PSB 8 35 52 65 75 77 79 | |
| continue liaising with VISTA IR camera development team. Use data from RAL operation of VIRCAM and TCS simulator to assess VIRCAM system. Test successive simulators, feedback comments | |
| 2.9 Development of DQC measures PSB 0 10 10 25 50 50 50 | |
| update QC measures as needed in light of test data no further progress | |
| 3 Pipeline infrastructure and pipeline progress monitoring tools | |
| 3.1 interactive tools for running pipeline JRL 60 75 75 85 100 100 100 completed | |
| update tools in the light of 05A, 05B experience and document | |
| 3.2 high level scripts to interrogate headers MR, EGS 50 80 80 100 100 100 completed update header interrogation scripts and test | |
| 3.3 automatic progression of results to web pages MR 50 65 65 75 100 100 completed | |
| maintain and update web-based pipeline progress web page | |
| 3.4 automatic checks to spot failure of pipeline JRL 0 35 35 85 100 100 completed | |
| continue developing automated checks for pipeline failures | |
| 3.5a Tools for fixing problem datasets (WFCAM) JRL 20 25 35 70 90 90 90 | |
| continue developing tools to handle problems in WFCAM data No further work required this make this a more pressing is: | month. Missing 06B data will be arriving soon and will ssue |
| 3.5b Tools for fixing problem datasets (VISTA) 0 0 0 0 0 0 on hold | |
| g parameter (1.5.1) | |
| 3.6 group documentation on pipeline infrastructure STH, JRL 60 65 65 80 100 100 completed | |
| stress test documentation and update as necessary | |
| 3.7a Oversee reprocessing WFCAM data after bug fixes/improvements MR 0 45 55 70 85 85 No reprocessing needed yet | |
| reprocess science data from 05A, 05B as necessary | |
| 4 Set up and manage raw science archive | |
| 4.1 extend UKIRT archive to cope with WFCAM data JRL, MR 50 70 80 85 100 100 100 completed | |
| manage WFCAM raw data archive. Manage and monitor WFCAM-ESO raw data transfers | |
| 4.2a Ingest and verify WFCAM data MR, MJI 10 30 45 65 90 92 95 | |
| | NDR data transferred from JAC via ftp and ingested and ocesing proceeding backwards Some 40 nights remain to |
| 4.2b Ingest and verify VISTA data 0 0 0 0 0 0 on hold | |
| 5 Set up and manage data processing system hardware | |
| 5.1 Investigate alternatives (benchmarking, reliability etc) MJI, PSB, JMI 100 100 100 100 100 100 100 completed | |
| 5.2 buy hardware and install PSB, JMI, MJI 50 100 100 100 100 100 100 completed | |
| 5.3 integrating and testing PSB, JMI 50 100 100 100 100 100 completed | |
| 5.4Manage day-to-day maintenance and upgradesPSB, JMI17345270858787 | |

| | | | | | U/Ju | II_ue | 1.712 | | |
|------|---|-----------|--------|------|------|-------|-------|-----|---|
| | continue maintenance and upgrade programme. Investigate new external bulk storage devices | | | | | | | | ongoing |
| 5.5 | Hardware additions for further processing system | | 0 | 0 | 5 | 15 | 30 | 30 | 30 |
| | monitor need for extra hardware for further processing | MJI | | | | | | | nothing to report |
| 6 | Run standard pipeline | 1 | | | | | 1 | | |
| 6.1a | Update WFCAM master calibration frames | MJI, JRL | 0 | 18 | 36 | 54 | 75 | 77 | 79 |
| | continue updating and testing calibration frames | | | | | | | | ongoing |
| 6.1b | Update VISTA master calibration frames | | 0 | 0 | 0 | 0 | 0 | 0 | 0 on hold |
| | | | | | | | | | |
| 6.2a | Monitor detector performance WFCAM | JRL, MR | 0 | 18 | 36 | 54 | 75 | 77 | 79 |
| | monitor with data as processed | | | | | | | | no further progress |
| 6.2b | Monitor detector performance VISTA | | 0 | 0 | 0 | 0 | 0 | 0 | 0 on hold |
| | | | | | | | | | |
| 6.3a | oversee standard processing WFCAM | MR | 0 | 18 | 36 | 54 | 75 | 77 | 79 |
| | process 06B, 07A data | | | | | | | | Processing the backlog of 06B data - 40 nights outstanding |
| 6.3b | Oversee standard processing VISTA | | 0 | 0 | 0 | 0 | 0 | 0 | 0 on hold |
| 0.4 | A C C P C NATOANA | | | 40 | - 00 | | 7.5 | | 70 |
| 6.4a | Astrometric calibration WFCAM | MJI | 0 | 18 | 36 | 54 | 75 | 77 | 79 |
| | (re)calibrate 05A and 05B, 06A data and so on | | | | | | | | 06B uses the revised, filter dependent astrometric calibration. Script written to recalibrate preceding semesters. All preceding semesters now recalibrated. |
| 6.4b | Astrometric calibration VISTA | | 0 | 0 | 0 | 0 | 0 | 0 | 0 on hold |
| 0.15 | 7 out official outside and 17 of 17 c | | _ | | | | | | o on note |
| 6.5a | Photometric Calibration WFCAM | STH | 0 | 18 | 36 | 54 | 75 | 77 | 79 |
| 0.00 | calibrate using 2mass and continue developing secondary standards system, Ces etc | | Ť | - 10 | | 0. | ,,, | | continuing |
| 6.5b | Photometric Calibration VISTA | | 0 | 0 | 0 | 0 | 0 | 0 | 0 on hold |
| 0.50 | Filotometric Calibration VISTA | | - | - 0 | - 0 | | 0 | - 0 | 0 OH HOID |
| 6.6a | Verify Science products and monitor DQC measures WFCAM | EGS, MJI | 0 | 18 | 36 | 54 | 75 | 77 | 79 |
| 0.00 | assess 05A, 05B, 06A and 06B data | 250, 1101 | | 10 | | | 10 | | SV of products ongoing see http://apm15.ast.cam.ac.uk/casudocs/wfcam/science-verification. And SV report at http://www.ast.cam.ac.uk/~wfcam/docs/reports/sv/index.html . |
| 6.6b | Verify Science products and monitor DQC measures VISTA | | 0 | 0 | 0 | 0 | 0 | 0 | 0 on hold |
| | | | _ | | | | | | |
| 6.7 | Monitor data product transfer to WFAU | MR, MJI | 0 | 18 | 36 | 54 | 75 | 77 | 79 |
| | continue data transfer to WFAU and monitor | | | | | | | | Many nights were transferred by WFAU apparently without problem. |
| 6.8a | Reprocess WFCAM data | MR | 0 | 18 | 36 | 54 | 75 | 77 | 79 |
| | reprocess if major bug fixes | | \top | | | | | | nothing to reprocess this month |
| | | | | | | | | | |
| 6.8b | Reprocess VISTA data | | 0 | 0 | 0 | 0 | 0 | 0 | 0 on hold |
| | | | | | | | | | |
| 7 | Development work for summit pipeline | | | | | | | | |
| 7.1a | Interface test pipelines in ORAC-DR | JRL 1 | 00 | 100 | 100 | 100 | 100 | 100 | 100 completed |
| | | | | | | | | | |
| 7.1b | Interface test pipelines to VISTA summit DR | JRL | 0 | 0 | 10 | 40 | 70 | 75 | 80 |
| | | | | | | | | | Version 0.6.2 released, 0.6.3 in preparation |
| | | | | | | | | | |

| | | | | | U/Ju | <u>ac</u> | 1.719 | | | |
|-------|---|----------------|----|-----|------|-----------|-------|-----|------|---|
| 7.2a | implement WFCAM pipeline at summit | JRL | 75 | 90 | 100 | 100 | 100 | 100 | 100 | completed |
| 7.01- | Invalance AVIOTA a in all a set a constitution | IDI | | | - | | | | | bald |
| 7.2b | Implement VISTA pipeline at summit | JRL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | on hold |
| 7.3a | documentation for ORAC-DR interface | JRL | 60 | 60 | 100 | 100 | 100 | 100 | 100 | completed |
| 7.5a | update and deliver documentation as development proceeds | JKL | 00 | 00 | 100 | 100 | 100 | 100 | 100 | Completed |
| 7.3b | documentation for interface VISTA | JRL | 0 | 0 | 0 | 30 | 60 | 60 | 60 | |
| 7.00 | decementation for interface views | OTTE | | | | - 00 | 00 | | - 00 | no further work this month |
| 7.4a | upgrade and maintain summit pipeline WFCAM | JRL | 17 | 40 | 55 | 75 | 100 | 100 | 100 | completed |
| | update and maintain as required | | | | | | | | | |
| 7.4b | upgrade and maintain summit pipeline VISTA | JRL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | on hold |
| 8 | Development and testing of standard 2d processing | | | | | | | | | |
| 8.1a | further development of standard pipeline for WFCAM | JRL,DWE | 80 | 85 | 90 | 96 | 97 | 98 | 99 | |
| | update and maintain as required. Assess persistance characteristics and develop trial | | | | | | | | | list driven photometry routine delivered to WFAU. Development of new background |
| | version | | | | | | | | | subtraction algorithm well underway. |
| 8.1b | development of VISTA specific packages | JRL | 0 | 30 | 45 | 60 | 80 | 85 | 88 | |
| | continue development of DRL. Continue testing of DRL in CPL environment. Release | | | | | | | | | version 0.6.2 of DRL released along with new cpl_wcs module. testing continues. |
| | version 0.1 CPL recipes and modules. Release minor version updates as required prior to 0.5. Liaise with ESO on integrating and commissioning modules into pipeline | | | | | | | | | |
| | environment | | | | | | | | | |
| 8.2a | liaison with WFCAM development team | JRL | 8 | 34 | 52 | 80 | 100 | 100 | 100 | completed |
| | continue telecons and discussions. | | | | | | | | | |
| 8.2b | liaison with Project Scientist & VISTA development team | PSB | 8 | 34 | 52 | 70 | 85 | 85 | 87 | |
| | assess any new detector engineering test data | | | | | | | | | meetings/discussion concerning the wish list for cold Paranal data |
| 8.3a | partake in planning WFCAM commissioning observations | STH | 80 | 100 | 100 | 100 | 100 | 100 | 100 | WFCAM commissioning completed |
| | | | | | | | | | | |
| | continue planning | | | | | | | | | |
| 8.3b | partake in planning VISTA commissioning observations | STH | 0 | 0 | 10 | 20 | 30 | 30 | 30 | |
| | liaise and discuss with camera PS and VISTA PS, find out about current commissioning | | | | | | | | | nothing to report |
| 8.4a | Participate directly in commissioning WFCAM | STH | 50 | 100 | 100 | 100 | 100 | 100 | 100 | completed |
| | | | | | | | | | | |
| 0.41 | complete observations | OTIL | | | | | | | | |
| 8.4b | Participate directly in commissioning VISTA | STH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | on hold |
| 8.5a | Tuning pipeline during commissioning and after WFCAM | MJI, STH, EGS | 20 | 40 | 70 | 85 | 90 | 90 | 90 | |
| 0.54 | keep on tuning as newer data comes in. further assessment of the quality and stability | Wol, OTTI, EGG | 20 | 70 | 70 | 00 | 30 | 30 | 30 | nothing to report |
| | of master calibration data. assess quality of science output | | | | | | | | | Trouting to report |
| 8.5b | Tuning pipeline during commissioning and after VISTA | MJI, JRL, EGS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | on hold |
| | | | | | | | | | | |
| 8.6a | documentation for 2D processing software WFCAM | JRL, MJI | 50 | 50 | 70 | 85 | 95 | 95 | 95 | |
| | update docs as necessary. Write data processing technical description paper | | | | | | | | | nothing further to report |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 8.6b | documentation for additional 2D processing software VISTA | JRL | 0 | 30 | 40 | 70 | 90 | 90 | 90 | |
| | document within recipe and module C code in doxygen compatible format | | | | | | | | | no further work |
| 8.7 | Comparison between automated and manual data products | STH | 50 | 55 | 70 | 80 | 85 | 85 | 85 | |
| | assess CASU processed WFCAM SV data in conjunction with CSV and Survey Heads | | | | | | | | | no further progress |
| 9 | Development and testing of standard catalogue products add in new measures requested | MIL | 60 | 100 | 100 | 100 | 100 | 100 | 100 | completed |
| 9.1 | monitor and tune if needed | MJI | 60 | 100 | 100 | 100 | 100 | 100 | 100 | completed |
| 9.2a | refine astrometric calibration model | MJI | 85 | 85 | 90 | 90 | 95 | 95 | 95 | |
| J.Za | refine astrometric model | IVIUI | 65 | 65 | 90 | 90 | 95 | 90 | 90 | no further progress |
| 9.2b | | MJI | 0 | 0 | 0 | 0 | 0 | 0 | Λ | on hold |
| 0.20 | Tomic agramonio cambration model - Vio IA specific | IVIOI | U | U | U | - 0 | | U | - 0 | OII TOTA |

| | | 1 | | | 0,00 | iii_ue | 1.7.10 | | 1 | |
|-------|---|------------|----------|-------|------|--------|----------|------|----------|--|
| | | | | | | | | | | |
| 9.3 | generate model simulations of expected data | STH | 100 | 100 | 100 | 100 | 100 | 100 | 100 | completed |
| | | | | | | | | | | |
| 9.4 | assess catalogue parameter reliability | MJI | 70 | 80 | 100 | 100 | 100 | 100 | 100 | completed - assessment finished in conjunction with SV and CASU internal tests |
| 9.4 | | IVIJI | 70 | 80 | 100 | 100 | 100 | 100 | 100 | completed - assessment limsned in conjunction with 5 v and 6A50 internal tests |
| | refine parameter error estimates and check for systematics in new params, finish in conjunction with 9.1 | | | | | | | | | |
| | Conjunction with 9.1 | | | | | | | | | |
| 9.5 | intercomparison of catalogue products with other packages | MJI | 100 | 100 | 100 | 100 | 100 | 100 | 100 | completed |
| | | | | | | | | | | · |
| 9.6 | Completeness | MJI, EGS | 0 | 40 | 40 | 40 | 40 | 40 | 40 | |
| 9.0 | · · · · · · · · · · · · · · · · · · · | IVIJI, EGS | U | 40 | 40 | 40 | 40 | 40 | 40 | |
| | design and report on completeness model, check completeness [9.6] and error estimates and parameter reliability [9.4] | | | | | | | | | no further progress |
| | estimates and parameter reliability [9.4] | | | | | | | | | |
| 9.7 | documentation of catalogue software and products | MJI | 55 | 60 | 70 | 80 | 85 | 85 | 85 | |
| | update catalogue products documentation | | | | | | | | | no further progress |
| | | | | | | | | | | no tarate progress |
| 40 | Octors to interest many frontly an area and a religion | | <u> </u> | | | | | | <u> </u> | |
| | Setup trial and run further processing pipeline | 1 | | | | | | | | |
| 10.1 | Manage and run further processing stages | | 0 | 0 | 0 | 0 | 0 | | 0 | still awaiting PSF v1,2 development completion |
| | | | | | | | | | | |
| 10.2 | development and assessment of PSF options 1,2 | DWE | 60 | 75 | 85 | 90 | 96 | 96 | 96 | |
| | run prototype code for PSF levels 1,2 on 05A data | D.11L | 00 | - , 5 | - 55 | - 50 | 33 | - 50 | 30 | no further progress |
| | Color, po code for F of foreign 1,2 of com data | | | | | | | | | Ino turtuer progress |
| | | | | | | | | | | |
| 10.3 | develop 1D/2D PSF-deconvolved Sersic profile fits | MJI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | prototype methods for Sersic profile fitting | | | | | | | | | paused, awaiting implementation of PSF fitting |
| 10.4 | Develop LSBG/nebulosity detection/parameterisation | MJI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 10.7 | investigate feasibility of nebulosity detection | IVIOI | - 4 | - 0 | | | <u> </u> | - 0 | - 0 | |
| | | | | | | | | | | paused, awaiting compelling scientific need and firmer requirements |
| 10.5 | Full iterative profile fitting for stellar images | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | | | | | | | | | paused, awaiting time |
| 10.6 | Develop and optimize Bayesian image classification | MJI | 0 | 30 | 40 | 40 | 40 | 40 | 40 | |
| 10.0 | trial Bayesian classification schemes | IVIOI | - 4 | - 30 | | 70 | 70 | | 70 | |
| | | | | | | | | | | no further progress |
| 10.7 | Modeling and simulations of further processing steps | | 0 | 0 | 100 | 100 | 100 | 100 | 100 | completed |
| | modelling and simulations of further processing steps. Simulate WFCAM data and use | | | | | | | | | |
| 11 | Photometric standards and calibration | | | | | | | | | |
| | Agree on primary standards (WFCAM + VISTA) | STH | 00 | 100 | 100 | 100 | 100 | 100 | 100 | completed |
| 11.1 | Agree on primary standards (WPCAWI + VISTA) | отп | 90 | 100 | 100 | 100 | 100 | 100 | 100 | completed |
| | | | | | | | | | | |
| 11.2 | Choose secondary standards (WFCAM + VISTA) | STH | 80 | 80 | 80 | 85 | 100 | 100 | 100 | completed: Cal Plan updated |
| | add in last few proposed standards and update doc | | | | | | | | | |
| 11 20 | take part in commissioning observations WFCAM | STH | 10 | 100 | 100 | 100 | 100 | 100 | 100 | phase II on-sky characterisation - completed |
| | | | | | | | | | | |
| 11.3b | take part in commissioning observations VISTA | STH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | on hold |
| | | | | | | | | | | |
| 11 4a | Reduce data, compute zero points and colour equations WFCAM | STH | 15 | 60 | 80 | 90 | 95 | 95 | 95 | |
| 11.10 | compute WFCAM photometric zeropoints from commissioning data. update colour | 0111 | - 10 | | | | 00 | | - 00 | Calibration agreed and implemented for DR2. Final tweaking for DR3 calibration under |
| | terms relative to 2MASS and UKIRT FS. Write paper | | | | | | | | | |
| | Total of Link too and order i or trino paper | | | | | | | | | review. Investigation into flux bias for faint calibration stars started. Paper in |
| | | | | | | | | | | preparation. |
| 11.4b | Reduce data, compute zero points and colour equations VISTA | STH | 0 | 0 | 0 | 0 | 0 | 0 | n | on hold |
| | , p p | | 1 | - | - | | - | | | |
| 44.5 | | OTU | | | | | 400 | 400 | 100 | |
| 11.5 | Update, maintain and extend secondary standards system | STH | 0 | U | 0 | 50 | 100 | 100 | 100 | complete |
| | begin building secondary standard fields system | | | | | | | | | |
| 11.6 | Investigate photometric calibration field systematics WFCAM+VISTA | STH | 0 | 30 | 60 | 60 | 65 | 70 | 70 | |
| | stack 2MASS residuals and assess | | 1 | | | | | | • | reanalysis of the systematics underway. Initial results show promising repeatable |
| | Static Limited Foundation and addedo | | | | | | | | | , |
| | | | | | | | 1 | | | structure |
| | | | | 60 | 70 | 90 | 100 | 100 | 100 | complete |
| 11.7 | assess extinction monitoring methods and develop measures | STH | 50 | 60 | 70 | | 100 | | | |
| 11.7 | use 2MASS comparison to get first order estimate and assess expected accuracy in | STH | 50 | 60 | 70 | 30 | 100 | | | |
| 11.7 | | STH | 50 | 80 | 70 | 30 | 100 | | | |
| 11.7 | use 2MASS comparison to get first order estimate and assess expected accuracy in | STH | 50 | 60 | 70 | 30 | 100 | | | |

| | | | | | 07Ju | ın_del | .xls | | | |
|------|---|----------|-----|-----|------|--------|------|-----|-----|--|
| 12.1 | develop extra systematic noise measures | MJI | 50 | 80 | 80 | 80 | 85 | 85 | 86 | |
| | finished for WFCAM; awaiting VISTA test files | | | | | | | | | no further progress |
| 12.2 | Refine current measures for WFCAM/VISTA data | JRL, MJI | 20 | 40 | 65 | 75 | 85 | 85 | 86 | |
| | continue monitoring the DQC assessment by visually checking random sub-sample | | | | | | | | | continuing as new data arrive |
| 12.3 | implement 2mass for throughput measurement | JRL | 75 | 100 | 100 | 100 | 100 | 100 | 100 | implemented local access version at summit - completed |
| 12.4 | master calibration frames for detector monitoring | JRL, MR | 35 | 60 | 80 | 80 | 80 | 80 | 80 | |
| | continue monitoring using 05A and 05B WFCAM data | | | | | | | | | no further work |
| 13 | Co-located list driven photometry | ' | | | | | | | | |
| | V2 Progress | 3 | 83 | 95 | 99 | 100 | 100 | 100 | 100 | |
| | e1 progress | 3 | 83 | 95 | 99 | 100 | 100 | 100 | 100 | |
| 13.1 | test methods for master catalogue generation | MJI | 100 | 100 | 100 | 100 | 100 | 100 | 100 | completed |
| 13.2 | develop basic WCS-based list driven photometer | MJI | 90 | 95 | 97 | 100 | 100 | 100 | 100 | completed |
| | test 80 parameter set (subsumes 13.3) | | | | | | | | | |
| 13.3 | externally driven WCS photometry and define parameter set | MJI | 75 | 95 | 100 | 100 | 100 | 100 | 100 | completed |
| | extend to full 80 parameter set | | | | | | | | | |
| 14 | Stacking and mosaicing | • | | | | | | | | |
| 14.1 | develop benchmark simple stacking/mosaicing framework | MJI | 100 | 100 | 100 | 100 | 100 | 100 | 100 | completed |
| 14.2 | NN algorithm with simple rejection | MJI | 100 | 100 | 100 | 100 | 100 | 100 | 100 | completed |
| 14.3 | More sophisticated rejection dealing with pixilation | MJI | 100 | 100 | 100 | 100 | 100 | 100 | 100 | completed |
| 14.4 | Stacking with optimum weighting and defect rejection | MJI | 25 | 25 | 35 | 35 | 35 | 35 | 35 | |
| | refine using WFCAM deep survey data and optical data. Trial different interpolation | | | | | | | | | no further progress |
| | options for WFCAM deeps surveys | | | | | | | | | |
| 14.5 | Advanced stacking/image restoration for variable PSF | MJI | 0 | 0 | 10 | 15 | 15 | 15 | 15 | |
| | investigate alternatives as part of UK design review | | | | | | | | | no further progress |
| 15 | Continuum subtraction and basic difference imaging | ' | | | | | | | | |
| 15.1 | Simple WCS-based subtraction techniques | MJI | 100 | 100 | 100 | 100 | 100 | 100 | 100 | completed |
| 15.2 | investigate and apply different interpolation methods | MJI | 100 | 100 | 100 | 100 | 100 | 100 | 100 | completed |
| 15.3 | develop adaptive kernel matching option | MJI | 80 | 80 | 85 | 85 | 90 | 90 | 90 | |
| | continue debugging and enhancements to adaptive kernel package | | | | | | | | | no further progress |
| 15.4 | time series photometry | STH | 20 | 50 | 70 | 75 | 85 | 87 | 90 | , and the second |
| | test with WFCAM photometry | | | | | | | | | tests begun on UDS data |
| 16 | Interpolation techniques and PSF modeling | · | | | | | | | | |
| 16.1 | investigate alternative interpolation/PSF schemes | DWE | 100 | 100 | 100 | 100 | 100 | 100 | 100 | completed |
| 16.2 | implications for different stacking methods | DWE | 20 | 30 | 100 | 100 | 100 | 100 | 100 | completed - further dev in 14.4 |
| | trial different stacking options for WFCAM deep surveys | | | | | | | | | |
| 16.3 | implications for deriving catalogues and parameters | DWE | 70 | 80 | 85 | 95 | 95 | 95 | 95 | |
| | finish testing of astrometric refinement code | | | | | | | | | no further progress |
| 16.4 | oversampled PSF generation per detector | DWE | 100 | 100 | 100 | 100 | 100 | 100 | 100 | completed |
| 16.5 | develop oversampled spatially varying PSF model | DWE | 20 | 30 | 30 | 30 | 50 | 50 | 50 | |
| | asess if spatially varying PSF model required, test on 05B data | | | | | | | | | no further progress |
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