| | | 040 | z4III3_cast | ı_deliveral | DIES.AIS | | |
|------|-------------------------------------------------------------------------------------------------------------------------------|------------|-------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| WP | CASU WP name /sub_task / 04Q4m3 deliverable | V.I. F. | name | date | end of month report | %sub | % task |
| # | | | | | | | |
| | Management and definition of project responsibilities | 3.0 | | | | | |
| | report to VISTA, UKIDSS, JAC, ATC, GSC | | | | | | 8 |
| | provide fornightly meeting minutes, monthly reports on progress + quarterly review reports and planning, attend VDUC meetings | | STH, MJI | 31-Oct-04 | meetings held and minuted. monthly report written. | 10 | |
| | | | STH, MJI | 30-Nov-04 | meetings held and minuted. monthly report written | 50 | |
| | | | STH, MJI | 31-Dec-04 | monthly report written | 100 | |
| | finish and deliver ADASS paper | | JRL | 31-Oct-04 | finished poster and attended ADASS (poster now on WWW pages) | 100 | |
| | prepare CASU grant bid (operations) | | STH, MJI | 31_Oct_04 | preparation well underway, to be submitted mid november | 50 | |
| | propure of too grant bid (operations) | | STH, MJI | | grant bid completed and submitted | 100 | |
| 4.0 | intenfere control decomment between CACH and IAC | | | | assumption of | | 10 |
| 1.2 | interface control document between CASU and JAC | | | | completed | | 10 |
| 1.3 | interface control document between CASU and WFAU | | | | completed | | 10 |
| 1.4a | define WFCAM data structures and FITS headers | | | | completed | | 10 |
| | | | | | | | |
| 1.4b | update proposed VISTA FITS headers as necessary | | | | paused | | |
| 1.5a | define WFCAM observing protocols | | | | | | 8 |
| | monitor and help update MSB guidelines | | MJI + STH | 31-Oct-04 | contact with Simon Dye and AA to discuss status of MSBs | 10 | |
| | · · · | | MJI, STH | 30-Nov-04 | held meeting with Simon Dye: included discussion on MSB preparation | 50 | |
| | | | | | no further progress - awaiting analysis of commissioning data | 50 | |
| | check first pass survey MSBs | | STH | 31-Oct-04 | checked GPS MSBs in UKIRT OT. Began construction of GCS MSBs in | 40 | |
| | | | STH | 30-Nov-04 | consultation with NCH. MJI sent textual summary of MSB designs to AA redesign of MSBs within OT. Can make no progress until SDT updated to | 10 | |
| | | | OTIL | 04 D = - 04 | reflect these changes | 10 | |
| | | | STH | 31-Dec-04 | no further progress | 10 | |
| 1.5b | define VISTA observing protocols | | | | | | |
| | help finish defining science and user requirements | | MJI + PSB | 31-Oct-04 | nothing further to add pending release of UKURD and feedback from UK community | 0 | |
| | | | MJI + PSB | 30-Nov-04 | UKURD released, but no feedback yet - VDUC meeting would be useful to discuss this | 0 | |
| | | | MJI + PSB | 31-Dec-04 | awaiting feedback + VDUC | 0 | |
| | | | | | | | |
| | liaise with UKIDSS&JAC on WFCAM obs strategy, surveys planning liaise and monitor progress | | DWE | 31-Oct-04 | arranged meeting with Simon Dye. discussed sky brightness with JAC as | | 8 |
| | Talloc and monitor progress | | STH | | well as commissioning plans. held meeting with Simon Dye to discuss commissioning and to keep CSV in | 10 | |
| | | | ЗІП | | touch with CASU activities | 50 | |
| | | | STH | 31-Dec-04 | JRL in contact with Simon Dye to arrange visit to Cambridge and WFCAM dataset for comparison tests | 100 | |
| 1.6b | liaise with Project Scientist on VISTA observing strategy & survey planning | 1 | | | | | |
| | liaise and monitor progress | | PSB | 31-Oct-04 | comments on SDT document fed to JMS and WJS. Awaiting next version. | 10 | |
| | | | PSB | 30-Nov-04 | reviewed last version of SDT | 50 | |
| | | | PSB | | awaiting feedback from FDR | 100 | |
| | liaise with VDUC on VDFS products for WFCAM | 1 | | | | | 8 |

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|-------------------------------------------------------------------------|--------|---------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------|
| liaise and monitor progress | STH | H + MJI | 31-Oct-04 | nothing to report. meeting with simon dye will include discussion of science verification and pipeline strategy | 10 | |
| | STH | l + MJI | 30-Nov-04 | held meeting with Simon Dye including discussion of pipeline and data products | 50 | |
| | STH | + MJI | 31-Dec-04 | JRL in short telecon with Naylor & Emerson | 100 | |
| | | | | · | | |
| .7b liaise with VDUC on VDFS products for VISTA | | | | | | |
| liaise and monitor progress | | | | nothing to report | 10 | _ |
| | | | | nothing to report | 10 | _ |
| | MJI | + STH | 31-Dec-04 | nothing to report | 100 | |
| .8a liaise with UKIDSS and JAC on survey progress DB | | | | | | \vdash |
| create version 1 of OMP database mirror to be used with survey progress | JRL | | 31-Oct-04 | no further development | | |
| database, including user interface | | | | inc is a so soprior | 0 | |
| | JRL | | 30-Nov-04 | no further progress | 0 | |
| | JRL | | 31-Dec-04 | resumed. currently waiting for feeback from JAC on connectivity problem to | | |
| | | | | main OMP database in Hawaii | 50 | |
| 4.0 | | | | | | - |
| 1.9 system documentation update and maintain web pages of system docs | DW | _ | 21 Oct 04 | documentation updated as necessary | 10 | \vdash |
| update and maintain web pages or system docs | DWI | | | documentation updated as necessary documentation updated as necessary | 50 | |
| | DWI | | | documentation up to date | 100 | _ |
| | | | | | | Г |
| 2 ESO VISTA software interface deliverables and documentation | 4.0 | | | | | |
| 2.1 VDFS user requirements document | | | | | | |
| prepare for FDR | PSE | 3 | 31-Oct-04 | | 0 | |
| | PSE | 2 | 30-Nov-04 | January. | 0 | |
| | 1 02 | , | 30-1101-04 | pauscu | ĺ | \Box |
| update document as appropriate | PSE | 3 | 31-Oct-04 | no further updates | 0 | |
| | PSE | 3 | 30-Nov-04 | incorporated feedback received so far on V1.0 draft, now includes failure | | |
| | PSE | | 24 Dec 04 | strategy V1.0 of URD submitted for FDR | 50 100 | |
| | PSE | 3 | 31-Dec-04 | V1.0 OF ORD Submitted for FDR | 100 | |
| 2.2 data reduction specification document | | | | | | |
| prepare for FDR | PSE | 3 | 31-Oct-04 | FDR moved to January | 0 | |
| | PSE | 3 | 30-Nov-04 | paused | 0 | |
| | | | | | | |
| create new DRS document as required | PSE | 3 | 31-Oct-04 | new document is DRLD. Significant progress on this in the last month resulting in two drafts. 2nd draft is complete in structure and includes most | | |
| | | | | of the details. now awaiting detailed comments from group, plus addition of | | |
| | | | | figures from STH | 10 | |
| | PSE | | | incorporated feedback for several sections of DRLD | 50 | _ |
| | PSE | 3 | 31-Dec-04 | DRLD and DRS V1.0 submitted for FDR | 100 | |
| and an CDL LOFITC work requirements | DOS | , | 24 0-+ 24 | hald discussions with Michala Davon and Containing at ADACC M | | |
| assess CPL+QFITS work requirements | PSE | 5 | 31-UCT-U4 | held discussions with Michele Peron and Carlo Izzo at ADASS. Now awaiting official response | 10 | |
| | PSE | 3 | 30-Nov-04 | awaiting official reponse | 10 | |
| | PSE | 3 | 31-Dec-04 | subsumed by design requirements within DRLD | 100 | |
| | | _ | 2.23004 | The state of the s | | \Box |
| 2.3 calibration plan document | | | | | | |
| prepare for and attend FDR | PSE | 3 | 31-Oct-04 | FDR moved to January | 0 | Г |
| | PSE | | 30-Nov-04 | | 0 | |
| | | | | | | $\overline{\Box}$ |
| update doc as appropriate | PSE | 3 | 31-Oct-04 | no further progress | 0 | - |
| | PSE | 3 | 30-Nov-04 | incorporated feedback received so far on V1.0 draft. Major revision to templates and updated FITS info | 50 | |
| | PSE | 3 | 31-Dec-04 | Cal Plan V1.0 submitted for FDR | 100 | _ |
| | 1 1.32 | _ | 2.230.04 | | | |

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| 2.5 ICD ESO/VPO | | | | | | (|
| update FITS header docs and DID/DIC and submit V0.5 for FDR | | PSB | 31-Oct-04 | QC dictionary written and included in DRLD | 50 | |
| | | PSB | | QC dictionary update after critical feedback | 50 | |
| | | PSB | | still awaiting feedback on earlier submitted version of DID | 50 | |
| | | | 0.2000. | our awaring rooms on our our our out of our or our out of our | | |
| 2.7 Delivery software modules for exposure time calculator | | - | | | | |
| prepare ETC doc for FDR | | PSB | 31-Oct-04 | latest draft of ETC doc (0.3.3) circulated by STH for internal comment and | | |
| property 210 doors 1 Bit | | . 05 | 0.00001 | input from JPE, JMS and WJS following initial comments from MJI, DWE, | | |
| | | | | JMS | 50 | |
| | ! | STH | 30-Nov-04 | ETC v0.5 completed and sent off to ESO for comment | 50 | |
| | | STH | 31-Dec-04 | ETC v0.9 submitted to ESO. Working version on | | |
| | | | | www.ast.cam.ac.uk/vdfs/etc.html. V1.0 to be completed imminently | 50 | |
| 2.8 liaise with VISTA IR camera development team | | | | | | |
| continue liaising with VISTA IR camera development team | | PSB | 31-Oct-04 | held discussions with JMS and SB | 10 | |
| Continue haising with VIOTA IIX camera development team | | PSB | | held discussions with JMS and SB | 50 | |
| | | PSB | | held discussions with JMS and SB | 100 | |
| | | <u> </u> | 31-Dec-04 | THEIR DISCUSSIONS WITH JIVIO AND SE | 100 | |
| 2.9 Development of DQC measures | | | | | | |
| | | DCD | 21 Oct 04 | listed required parameters and added to DDLD, new need more detailed | | |
| specify what DQC measures will be needed for FDR | | PSB | 3 1-UCT-U4 | listed required parameters and added to DRLD. now need more detailed formulation of how to compute | 10 | |
| | | PSB | 30-Nov-04 | formulated more detailed description of QC measures included in DRLD | 50 | |
| | | PSB | | DQC measures included in DRLD | 100 | |
| | | <u> </u> | 31-Dec-04 | DQC Measures included in DRLD | 100 | |
| 3 Pipeline infrastructure and pipeline progress monitoring tools | 3.5 | | | | | |
| 3.1 interactive tools for running pipeline | 3.3 | | T | | | |
| develop tools and document | | JRL | 31-Oct-04 | more commissioning recipes and scripts written, tests of recipes with | | |
| develop tools and document | ľ | JKL | 31-001-04 | WFCAM first light images go well. | 10 | |
| | | JRL | 30-Nov-04 | more recipes written and tuned at summit during commissioning. | 50 | |
| | | JRL | | | | |
| | | | | these will be tuned and modified according to results of tests on the | | |
| | | | | November 2004 comissioning data | 50 | |
| | | | | 3 *** *** *** 3 **** | | |
| 3.2 high level scripts to interrogate headers | - , | STH, JMI | + | paused | | |
| 3.2 Iligit level scripts to interrogate headers | | STIT, JIVII | + | pauseu | | |
| 3.3 automatic progression of results to web pages | - , | STH, JMI | + | paused | | |
| 3.3 automatic progression of results to web pages | - | STIT, JIVII | - | pauseu | | |
| 3.4 automatic checks to spot failure of pipeline | | JMI, STH | | paused | | |
| 3.4 automatic checks to spot failure of pipeline | - | JIVII, STIT | + | pauseu | | |
| 3.5 Tools for fixing problem datasets | | JRL, JMI | | paused | | |
| C.O TOOLS for fixing problem datasets | | JI LL, OIVII | | padoca | | |
| 3.6 group documentation on pipeline infrastructure | | | | | | |
| stress test documentation and update as necessary | | JRL, JMI | 31-Oct-04 | no progress | 0 | |
| | | JRL, JMI | 30-Nov-04 | no progress | 0 | |
| | | JRL, JMI | 31-Dec-04 | no progress | 0 | |
| | | | | | | |
| 3.7 Oversee reprocessing WFCAM data after bug fixes/improvements | | | | placeholder | | |
| | | | | | | |
| 4 Set up and manage raw science archive | 0.0 | | | | | |
| 4.1 extend UKIRT archive to cope with WFCAM data | | | | | | |
| create version 1 of WFCAM raw data archive | | JRL | 31-Oct-04 | table schema written. waiting to complete upgrade to sybase database | | |
| Side Side in the State of the State of the Grant Country of the State | | J. 1L | 3. 33. 34 | devices before creating the new database | 10 | |
| | 1. | JRL | 30-Nov-04 | no further progress | 10 | |
| | | JRL | | no further progress | 10 | |
| | | | 2.23004 | | | |
| 4.2 Ingest and verify WFCAM data | | | | | | |
| 4.2 IIIQESI ANU VENIV VVI OANI UAIA | 1 1 | | | | | |

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|----------------------------------------------------------------------------|------------------------------|------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|
| | | JRL | 31-Dec-04 | last tapes arrived just before christmas. first half of WFCAM commissioning data ingested (8/16 tapes). part of one tape (covering 3 nights) couldn't be read. | 50 | |
| | | | | | | |
| 5 Set up and manage data processing system hardware | 2.0 | | | | | |
| | | | | | | |
| 5.1 Investigate alternatives (benchmarking, reliability etc) | | | | completed | | 10 |
| | | | | | | |
| 5.2 buy hardware and install | | | | | | 8 |
| purchase and install bulk storage devices | | PSB, JMI | | paused | | |
| purchase and install spare ultrium device | | PSB, JMI | | paused | | |
| | | | | | | |
| 5.3 integrating and testing | | ļ | | | | 7 |
| integrate and test bulk storage devices | | PSB, JMI | | paused | | |
| integrate and test spare ultrium device | | PSB, JMI | | paused | | |
| | | | | | | |
| 5.4 Manage day-to-day maintenance and upgrades | | | | | | |
| continue maintenance and upgrade programme | | | | proceeding as needed | 10 | |
| | | JMI, PSB | 30-Nov-04 | proceeding as required | 50 | |
| | | JMI, PSB | 31-Dec-04 | proceeding as required | 100 | |
| | | | | | | |
| 6 Run standard pipeline | 2.5 | | | | | |
| | | | | | | |
| 6.1 Update WFCAM master calibration frames | | | | | | |
| ingest and verify WFCAM on-sky test data | | JRL, MJI | 31-Oct-04 | awaiting receipt of WFCAM first light images | | |
| | | JRL, MJI | | have ingested first set of WFCAM commissioning images [all sdf]. verified | | |
| | | 0.12, | | small sample of individual detectors by direct transfer from summit pipeline | 10 | |
| | | JRL, MJI | 31-Dec-04 | verification in progress | 50 | |
| | | , | | , , , , , , , , , , , , , , , , , , , | | |
| 6.2 Monitor detector performance WFCAM | | | | placeholder | | |
| | | | | placement | | |
| 6.3 Oversee standard processing WFCAM | | | | placeholder | | |
| or over our and a processing the oran | | | | placemental | | |
| 6.4 Astrometric calibration WFCAM | | | | placeholder | | |
| 0.4 Astronietric campration vvi OAIII | | + | | placefolder | | |
| 6.5 Photometric Calibration WFCAM | _ | | | placeholder | | |
| 6.5 Filotometric Campitation WFCAIW | | | | placeriolidei | | |
| C.C. Varify Science musdy at and manifest DOC massages MECAM | - | | | nless helder | | |
| 6.6 Verify Science products and monitor DQC measures WFCAM | -+- | - | | placeholder | | |
| 0 7 14 14 14 14 14 14 14 14 14 14 14 14 14 | | | | | | |
| 6.7 Monitor data product transfer to WFAU | | | | placeholder | | |
| | - | | | | | |
| 6.8 Reprocess WFCAM data | | | | placeholder | | |
| | | <u> </u> | | | | |
| 7 Development work for summit pipeline | 1.0 | | T | | | |
| 7.1 Interface test pipelines in ORAC-DR | | JRL | | completed | | 10 |
| | | <u> </u> | | | | |
| 7.2a implement WFCAM pipeline at summit | | <u> </u> | | | | 7 |
| demonstrate catalogue and non-catalogue DQCs | | JRL | | no further progress | 0 | |
| | | | | investigated QC measures during commissioning | 10 | |
| | | | 31-Dec-04 | investigations continuing using comissioning data | 50 | |
| | | | | | | |
| update & maintain + commissioning enhancements | | JRL | 31-Oct-04 | pipeline recipes added for a variety of microstep and jitter schemes. | 10 | |
| | | | | improvements and enhancements made during commissioning. | 50 | |
| | | | | improvements and tuning will continue for next two months using | | |
| | 1 | | 1 | comissioning data | 50 | |
| | | | | | | |
| | _ | | | Somiodistilia data | | |
| develop recipes for dealing with crosstalk, non-linearity, reset anomalies | | JRL | 31-Oct-04 | | 10 | |
| develop recipes for dealing with crosstalk, non-linearity, reset anomalies | | JRL JRL | | no further progress recipes for dealing with detector artefacts being developed with the help of | 10 50 | |

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|-----------------------------------------------------------------------------------------------------------|----------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| | JRL | 31-Dec-04 | recipes under development | 50 |
| 7.3a documentation for ORAC-DR interface | | | | |
| update and deliver documentation as development proceeds | JRL | 21 Oct 04 | documentation added for primitives as they have been written | 10 |
| update and deliver documentation as development proceeds | JRL | | documentation added as recipes delivered | 50 |
| | JRL | | documentation up to date | |
| | JKL | 31-Dec-04 | documentation up to date | 100 |
| 4a upgrade and maintain summit pipeline WFCAM | | | | |
| upgrade and maintain | JRL | 31-Oct-04 | further upgrades waiting until end of first part of commissioning run | 0 |
| | JRL | 30-Nov-04 | upgraded in situ during commissioning | 50 |
| | JRL | 31-Dec-04 | upgrades continue to be made in the light of tests on commissioning data | 50 |
| | | | | |
| 8 Development and testing of standard 2d processing 1a further development of standard pipeline for WFCAM | 4.0 | | | I I |
| finish implementing new version of imcore to include full param set | JRL | 31-Oct-04 | no further progress | 0 |
| miles important flow version of influence to include full param set | JRL | | no further progress | 0 |
| + | JRL | | no further progress | 0 |
| | OI VL | 01.000-04 | no taration progresso | |
| 2a liaison with WFCAM development team | | | | |
| continue discussion on reset anomaly, crosstalk and linearity | JRL | 31-Oct-04 | pre-commissioning science-array test data received and analysed. | 10 |
| | JRL | 30-Nov-04 | much discussion of these issues during commissioning and much data taken to enable characteriztion of detector 'features' | 50 |
| | JRL | 31-Dec-04 | Commissioning data shows the extent of each of the effects. January and February 2004 will be used to investigate the source of each and methods to remove them. | 50 |
| | | | to remove them. | |
| assess science array test data for above problems and report | JRL | 31-Oct-04 | as above | 10 |
| | JRL | 30-Nov-04 | test data now in hand and under investigation to enable comprehensive report | 50 |
| | JRL | 31-Dec-04 | investigtations still underway | 50 |
| 2b liaison with Project Scientist & VISTA development team | | | | |
| assess detector engineering test data | MJI | 31-Oct-04 | awaiting further engineering test data | 0 |
| | MJI | 30-Nov-04 | have received VISTA detector test reports and in the process of compiling CASU engineering test wish list | 10 |
| | MJI | 31-Dec-04 | finished current assessment & completed lab test wish list | 100 |
| 3a partake in planning WFCAM commissioning observations | | | | |
| continue liaising with ATC/JAC | STH | 31-Oct-04 | discussions held with JAC via telecon | 10 |
| | STH | | telecon with JAC on Nov 4th including discussion of commissioning. held meeting with Simon Dye. JRL then out to UKIRT. | 50 |
| | STH | 31-Dec-04 | nothing further to report | 100 |
| 3b partake in planning VISTA comissioning observations | | | | |
| liaise and discuss with camera PS and VISTA PS | STH | 31-Oct-04 | nothing to report | 10 |
| | STH | 30-Nov-04 | nothing to report | 50 |
| | STH | 31-Dec-04 | nothing to report | 100 |
| 4a Participate directly in commissioning WFCAM | - | | | |
| help with first phase of WFCAM on-sky commissioning | JRL | 31-Oct-04 | bug fixes and upgrades being issued in real time | 10 |
| - not many many many many many many many many | JRL | | visited UKIRT to participate directly | 100 |
| .5 Tuning pipeline during commissioning and after | | | | |
| use commissioning data to tune processing strategy | MJI | 31-Oct-04 | awaiting commissioning data | 0 |
| | MJI | | some tuning and refinement completed at JAC | 50 |
| | MJI | 31-Dec-04 | tuning investigations in progress | 50 |
| assess the quality and stability of the master calibration data | JRL | 31-Oct-04 | awaiting commissioning data | 0 |
| | | | | |

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|-----------------|----------------------------------------------------------------------|---------------|------------|------------------------|------------------------------------------------------------------------------------------------------|-----|---|
| | | | JRL | | quality assessed. stability to be assessed back in Cambridge | 50 | |
| | | | JRL | 31-Dec-04 | | 50 | |
| | | | | | | | |
| 8.6 docume | ntation for 2D processing software | | | | | | |
| updates | docs as necessary | | JRL | | no progress | 0 | |
| | | | JRL | | no progress | 0 | |
| | | | JRL | 31-Dec-04 | no progress | 0 | |
| | | | | | | | |
| | ison between automated and manual data products | | | | | | |
| compare | FIRES with published results and write report | | STH | 31-Oct-04 | MJI has compared imcore runs on FIRES reduced and CASU reduced | 40 | |
| _ | | | ~ ~ | 22.11 | datasets. | 10 | |
| | | | STH | | no progress | 10 | |
| | | | STH | 31-Dec-04 | no progress | 10 | |
| | 001/ | | OTU | 04.0.4.04 | 1: 1:1:00// | 0 | _ |
| compare | CSV reduced FIRES data with pipeline reduction | | STH | | meeting arranged with CSV | U | |
| | | ; | STH | 30-Nov-04 | Simon Dye has made no progress and does not plan to reduce this dataset. | 0 | |
| | | | STH | 31 Dec 04 | paused now superceded by arrival of WFCAM data | 0 | _ |
| | | | 0111 | 31-Dec-04 | now superceded by arrival of VVI OAIVI data | ſ | _ |
| 9 Develop | ment and testing of standard catalogue products | 4.0 | | | | | |
| | new measures requested | 7.0 | | | | | _ |
| | sting and debugging new catalogue parameter measures | | MJI | 31-Oct-04 | no progress | 0 | _ |
| 1111311 103 | and debugging new outdiogue parameter measures | | MJI | | no progress | 0 | |
| | | $\overline{}$ | MJI | | no progress | 0 | _ |
| | | | IVIOI | 31-000-04 | no progress | | _ |
| 2 refine as | strometric calibration model | | MJI | | paused | | _ |
| remie us | Strometric campitation model | | IVIOI | | pauseu | | _ |
| 3 generate | e model simulations of expected data | | STH, JMI | | paused | | _ |
| | mulations | | DWE | 31_Oct_04 | more detailed simulations run due to improved accuracy of astrometric PSF | | _ |
| Termie Sir | mulations | ľ | DVVL | 01 001 04 | fitting and updated interleaving report | 100 | |
| | | | | | | ſ | |
| 9.4 assess of | catalogue parameter reliability | | | | | | |
| refine par | rameter error estimates and check for systematics in new params | | MJI | 31-Oct-04 | no progress | 0 | |
| | | | MJI | 30-Nov-04 | no progress | 0 | |
| | | | MJI | 31-Dec-04 | no progress | 0 | |
| | | | | | | | |
| 9.5 intercom | nparison of catalogue products with other packages | | JMI | | paused | | |
| | | | | | | | |
| 9.6 Complet | teness and error estimates | | | | stopped - subsumed into 9.4 | | |
| | | | | | | | |
| 9.7 docume | ntation of catalogue software and products | | | | | | _ |
| | atalogue products documentation | | MJI | 31-Oct-04 | no progress | 0 | |
| | | | MJI | 30-Nov-04 | more updates to docs (pods) made | 50 | _ |
| | | ı | MJI | | further updates as required | 100 | |
| | | | | | | ſ | |
| 10 Setup tri | ial and run further processing pipeline | 3.0 | | | | | |
| | | | | | | | |
|).1 Manage | and run further processing stages | | | | placeholder | | _ |
| | | | | | | | |
| | ment and assessment of PSF options 1,2 | | | | | | _ |
| | robust version of code for PSF level 1 | | MJI | | no progress | 0 | _ |
| | | | MJI | 30-Nov-04 | Level one code completed. | 100 | |
| | | | | | | | |
| | | | | | | 0 | |
| produce | prototype for PSF level 2 | | MJI | 31-Oct-04 | no progress | U | |
| produce | prototype for PSF level 2 | | MJI MJI | 31-Oct-04 30-Nov-04 | no progress level 2 ML code constructed, still needs debugging and incorporation | 50 | |
| produce | prototype for PSF level 2 | | MJI | 30-Nov-04 | level 2 ML code constructed, still needs debugging and incorporation | 50 | |
| produce | prototype for PSF level 2 | | | 30-Nov-04 | no progress level 2 ML code constructed, still needs debugging and incorporation no further progress | | |
| produce produce | prototype for PSF level 2 1D/2D PSF-deconvolved Sersic profile fits | | MJI | 30-Nov-04 | level 2 ML code constructed, still needs debugging and incorporation | 50 | |

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|------------------------------------------------------------------------------------------|-----|-----------|--------------|--------------------------------------------------------------------------------------------------------------------|-----|-----|
| 10.4 Develop LSBG/nebulosity detection/parameterisation | | | | placeholder | + | |
| 10.5 Full iterative profile fitting for stellar images | | | | placeholder | _ | |
| 10.5 I un iterative prome numy for stellar images | | | | praceriolider | | |
| 10.6 Develop and optimize Bayesian image classification | | | | placeholder | | |
| | | | | | | |
| 10.7 Modelling and simulations of further processing steps | | | | placeholder | | |
| 44 Dhatamatria atandarda and calibration | 2.0 | | | | | |
| 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-Oct-04 | discussions with Paul Hirst and contacted Sandy Leggett | 10 | |
| complete narrow band inter-candidation plan and apaate document | | STH | | no further progress | 10 | |
| | | STH | | no further rogress | 10 | |
| | | | | | | |
| 11.2 choose secondary standard fields | | | | | | 80 |
| refine/shorten list | | STH | 31-Oct-04 | list updated to include more northern stars. next need to reject fields with | 10 | |
| | | STH | 30-Nov-04 | too bright objects in WFCAM footprint folded WFCAM expected saturation level into target selection. list shortened | 10 | |
| | | 0111 | 30-1101-04 | Tolded Wi OAW expected saturation level into target selection. list shortened | 50 | |
| | | STH | 31-Dec-04 | SKL has obtained CGS4 spectra to aid WFCAM calilbration - specifically | | |
| | | | | Y.Z and narrowband filters | 50 | |
| 11.3 take part in commissioning observations WFCAM | | | | | | 25 |
| phase I on-sky characterisation | | JRL | 31-Oct-04 | planned trip to Hawaii for November | 10 | |
| phase for sky characterisation | | JRL | | plantica trip to riation for ito online. | 100 | |
| | | 0.12 | 00110101 | part in on only ordination prison | | |
| 11.7 assess extinction monitoring methods and develop measures | | | | | | 50 |
| simulate from night(s) data and estimate expected accuracy | | STH | | no progress | 0 | |
| | | STH | | no progress | 0 | |
| | | STH | 31-Dec-04 | no progress | 0 | |
| 12 Further development of DQC measures at summit and Cambr | 2.0 | | | | | |
| 12.1 develop extra systematic noise measures | 2.0 | | | | | 50 |
| trial when WFCAM data becomes available | | MJI | 31-Oct-04 | awaiting WFCAM data | 0 | |
| | | MJI | 30-Nov-04 | no progress - only just received data | 0 | |
| | | MJI | 31-Dec-04 | made a start. will progress this with commissioning data over the next two | 40 | |
| | | | | months | 10 | |
| 12.2 Refine current measures for WFCAM/VISTA data | | | | | | 20 |
| trial when WFCAM data becomes available | | JRL | 31-Oct-04 | will progress this when WFCAM commissioning data becomes available | 0 | |
| that when we do the data becomes available | | JRL | | no progress - only just received data | 0 | |
| | | JRL | 31-Dec-04 | made a start. will progress this with commissioning data over the next two | | |
| | | | | months | 10 | |
| 4001 1 40 6 41 1 4 | | | | | | 75 |
| 12.3 implement 2mass for throughput measurement implement local access version at summit | | JMI | 31 Oct 04 | no progress | 0 | /5 |
| implement local access version at Summit | | JMI | | no progress | 0 | |
| | | JMI | | no progress | 0 | |
| | | J | 2. 200 04 | | | |
| 12.4 master calibration frames for detector monitoring | | | | | | 35 |
| assess and report on science array test data | | JRL | | awaiting commissioning data | 0 | |
| | | JRL | 30-Nov-04 | no progress - only just received data | 0 | |
| | | JRL | 31-Dec-04 | made a start. will progress this with commissioning data over the next two | 10 | |
| | | | | | | |
| 13 Co-located list driven photometry | 3.0 | | | | | |
| 13.1 test methods for master catalogue generation | | | | completed | + | 100 |
| 10.1 tost motifous for muster catalogue generation | | | | completed | _ | |
| 13.2 develop basic WCS-based list driven photometer | | | | | | 90 |
| | | | | | | |

| | | 040 | კ4 М3_са | isu_deliveral | DIES.XIS | | |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|
| | | | MJI | | no progress | 0 | |
| | | | MJI | 31-Dec-04 | no progress | 0 | |
| | | | | | | | |
| | nally driven WCS photometry and define parameter set | | | | | | 75 |
| extend | d to full 80 parameter set | | MJI | | no progress | 0 | |
| | | | MJI | | no progress | 0 | |
| | | | MJI | 31-Dec-04 | no progress | 0 | |
| | | | | | | | <u> </u> |
| | king and mosaicing | 4.0 | | | | | |
| 14.1 devel | op benchmark simple stacking/mosaicing framework | | MJI | | completed | | 100 |
| | | | | | | | |
| 14.2 NN al | gorithm with simple rejection | | MJI | | completed | | 100 |
| | | | | | | | <u> </u> |
| 14.3 More | sophisticated rejection dealing with pixellation | | MJI | | completed | | 100 |
| | | | | | | | |
| | king with optimum weighting and defect rejection | | | | | | 25 |
| refine | and test current seeing weighting method on FIRES data | | MJI | 31-Oct-04 | seeing weighting apparently gives 0.2 mag improvement in depth. tests | | 1 |
| | | | | 00.11 04 | continuing | 50 50 | |
| | | | MJI | 3U-NOV-04 | no further progress | 50 | |
| | | | MJI | 31-Dec-04 | no further progress | 50 | |
| 45.0 | and the state of t | | | | | | |
| | nuum subtraction and basic difference imaging | 4.0 | | | | 1 1 | 400 |
| 15.1 Simpi | le WCS-based subtraction techniques | | MJI | | completed | | 100 |
| 45 0 inves | timete and annie different intermedation matheda | | N / 11 | | | | 100 |
| 15.2 inves | tigate and apply different interpolation methods | | MJI | | completed | | 100 |
| 45.0 double | | | | | | | 80 |
| | op adaptive kernel matching option | | N 4 11 | 04.0-+.04 | | 10 | |
| contin | nue debugging and enhancements to adaptive kernel package | | MJI | | upgraded as needed | 50 | |
| | | | MJI | 30-Nov-04 | upgraded as needed | 100 | |
| | | | MJI | 31-Dec-04 | upgraded as needed | 100 | |
| 45 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | it event detection | | | | | | 0 |
| | | | OTU | 04.0-+.04 | | 0 | _ |
| asses | s difference imaging method (continuum subtraction) | | STH | 31-Uct-04 | no progress | 10 | |
| | | | STH | | assessment ongoing - using INT WFC Orion observations | 50 | |
| | | | STH | 31-Dec-04 | progressing well with INT WFC an WASP datasets | 50 | |
| 40 1 | alation to shalower and DOE madeling | 4.0 | | | | | |
| | polation techniques and PSF modeling | 4.0 | 1 | | | 1 1 | 400 |
| 16.1 Inves | tigate alternative interpolation/PSF schemes | | | | completed | | 100 |
| 100: 11 | 4. 6 1166 4 4 1 1 | | | | 1 20 100000 | | 20 |
| 16.2 implic | cations for different stacking methods | | | | paused awaiting real WFCAM data | | 20 |
| 40.0 : !: | | | | | | | 70 |
| | cations for deriving catalogues and parameters | | D14/E | 24.2.4.2.4 | | | 70 |
| finish | development and testing of astrometric refinement code | | DWE | 31-Oct-04 | | | 1 |
| | | | | | astrometric PSF fitting. Slow algorithm 2-4 times more accurate than | 10 | 1 |
| | | | DWE | 30 Nov 04 | standard pipeline astrometric refinement code effectively finished. Phase 2 report being | 10 | |
| | | | DVVE | 30-1100-04 | written | 50 | 1 |
| | | | DWE | 31-Dec-04 | phase 2 report written, awaiting internal review | 50 | |
| | | | | | J | | |
| 16.4 overs | sampled PSF generation per detector | | | | finished | | 100 |
| 1111010 | | | | | | | |
| 16.5 devel | op oversampled spatially varying PSF model | | | | | | 0 |
| | initial development of spatially varying PSF model | | DWE | 31-Oct-04 | no progress | 0 | |
| | | | DWE | | programme written to analyse spatial variation of PSF using chi-squared | | |
| | | | | | from PSF fits. Tested on optical data. Awaiting real WFCAM data. | | 1 |
| | | | | | and the second s | 50 | |
| | | | | 31-Dec-04 | no progress pending useful data | 50 | |
| | | | | | | | |
| | | | | | | | |
| final tu | uning on WFCAM on-sky data | | DWE | 31-Oct-04 | no progress | 0 | |

| DWE | 31-Dec-04 | paused | 0