| VP CASU WP name /sub_task / 03Q4 deliverable | V.I.F. | Q4_casu_ name | date | end of month report | % don |
|---|--------|------------------|------|---------------------|-------|
| יו סרוסט זור וומוווכ וסטט נמסג ו טטעיי עלוועלומטול | V.I.F. | name | Jaie | | |
| 1 Management and definition of project responsibilities | 3.0 |) | | | |
| 1.1 report to VISTA, UKIDSS, JAC, ATC, GSC | | | | | |
| provide fornightly meeting minutes, monthly reports on progress + quarterly review reports and planning | N | MJI + STH | | | |
| 1.2 interface control document between CASU and JAC | | | | | 5 |
| in conjunction with JAC produce and sign off hard copy | | MJI | | | |
| 1.3 interface control document between CASU and WFAU | | | | | 5 |
| sign off Q2 ICD and finalise advanced processing product ICD | | MJI | | | |
| 1.4 define data structures and FITS headers | | JRL | | paused | 5 |
| | | | | | |
| 1.5 define observing protocols | | STH | | paused | 5 |
| 1.6 liaise with UKIDSS & JAC on observing strategy | | | | | 5 |
| monitor progress | | DWE | | | |
| 1.7 liaise with UKIDSS & JAC on survey planning | | | | | 5 |
| monitor progress | | DWE | | | |
| 1.8 liaise with UKIDSS and JAC on survey progress DB | | | | | 5 |
| get feedback from JAC for mirroring of current progress database | | JRL | | | |
| investigate use of Sybase Replication Server to perform the task | | JRL | | | |
| deliver a working mirror copy of the OMP database | | JRL | | | |
| 1.9 system documentation | | | | | 5 |
| update and maintain web pages of system docs | | DWE | | | |
| | | | | | |
| 2 ESO VISTA software interface deliverables and documentation 2.1 VDFS user requirements document | 4.0 | | 1 | | 5 |
| incorporate minor improvements prior to FDR | | PSB | | | |
| | | 100 | | | |
| 2.2 data reduction specification document | | | | | 5 |
| produce first real draft of DRS document | | PSB | | | |
| 2.3 calibration plan document | | | | | 5 |
| incorporate draft plan for calibration fields | | PSB | | | |
| 2.5 ICD ESO/VPO | | | | | 5 |
| draft version of Data Interface dictionary - esp. FITS header specification | | PSB | | | |
| work on templates/Obs | | PSB | | | |
| 2.8 liaise with VISTA IR camera development team | | | | | 5 |
| check camera documentation for conflicts/issues | | PSB | | | |
| 3 Pipeline infrastructure and pipeline progress monitoring tools | 3.5 | - | | | |
| 3.1 interactive tools for running pipeline | 3.0 | JRL | | paused | 5 |
| | | | | | |
| 3.2 high level scripts to interrogate headers | | STH, JMI | | paused | 5 |
| 3.3 automatic progression of results to web pages | | STH, JMI | | paused | 5 |
| 3.6 group documentation on pipeline infrastructure | | | | | 5 |
| modify current documentation according to recommendations from stress tests. | | JRL | | | |
| | + | | | | |
| 4 Set up and manage raw science archive | 0.0 | | 1 | | |

| 8.2 liaison with WFCAM development team | | | 10 |
|--|----------|--------|----|
| assess engineering test data for reset anomaly, dark stability, cross-talk, image | JRL | | |
| retention and linearity | | | |
| | | | |
| 8.3 partake in planning commissioning/characterisation observations | STH | paused | 50 |
| g | | | |
| 8.6 documentation for 2D processing software | | | 50 |
| updates docs as necessary and as a result of feedback | JRL | | |
| | - | | |
| 8.7 Comparison between automated and manual data products | | | 50 |
| pipeline process FIRES data | STH | | |
| pipeline process UFTI data | STH | | |
| | | | |
| 9 Development and testing of standard catalogue products | 4.0 | | |
| 9.1 add in new measures requested | | | 10 |
| Produce first version of catalogue software with all extra measures | MJI | | |
| | | | |
| 9.2 refine astrometric calibration model | MJI | paused | 50 |
| | IVIJI | | |
| 0.0 sensure to model simulations of supertail data | CTU IM! | | E0 |
| 9.3 generate model simulations of expected data | STH, JMI | paused | 50 |
| | | | |
| 9.4 assess catalogue parameter reliability | JMI | paused | 50 |
| | | | |
| 9.5 intercomparison of catalogue products with other packages | JMI | paused | 50 |
| | | | |
| 9.6 Completeness and error estimates | JMI | paused | 50 |
| 3.6 Completeness and error estimates | JIVII | pauseu | 50 |
| | | | |
| | | | |
| 9.7 documentation of catalogue software and products | | | 50 |
| 9.7 documentation of catalogue software and products update docs as necessary and as a result of feedback | MJI | | 50 |
| | MJI | | 50 |
| | MJI | | 50 |

03Q4_casu_deliverables.xls

| | | 03Q4_casu_deliv | verables.xls | |
|---|--|-----------------|--------------|-----|
| 11 Photometric standards and calibrati | ion | 3.0 | | |
| 11.1 agree on primary standards | | | | 50 |
| investigate and report on narrow-band | filter calibration options | STH | | |
| extend primary standards to VISTA | • | STH | | |
| | | | | |
| 11.2 choose secondary standard fields | | | | 50 |
| incorporate feedback from working gro | oup on choice of secondary fields and | STH | | |
| update document | | | | |
| choose secondary standard fields for \ | /ISTA | STH | | |
| | | | | 0 |
| 11.7 assess extinction monitoring methods | | OTU | | U |
| investigate UKIRT archive and write re | port | STH | | |
| 12 Further development of DQC measu | urse at summit and Cambr | 2.0 | | |
| 12.3 implement 2mass for throughput me | | JMI | paused | 50 |
| 12.3 Implement 2mass for throughput m | easurement | JIVII | pauseu | |
| 12.4 master calibration frames for detect | or monitoring | | | 10 |
| assess and report if current methods w | | JRL | | |
| | | JIL | | |
| 13 Co-located list driven photometry | | 3.0 | | |
| 13.2 develop basic WCS-based list driver | n photometer | | | 50 |
| investigate practicalities and implement | | MJI | | |
| | משופנע וסט וסו אמומוופופוס | | | |
| 13.4 externally driven WCS photometry and | l define parameter set | | | 0 |
| modify software to take external lists o | | MJI | | |
| | | | | |
| 14 Stacking and mosaicing | | 4.0 | | |
| 14.1 develop benchmark simple stacking | n/mosaicing framework | MJI | complete | 100 |
| <u> </u> | | | | |
| 14.2 NN algorithm with simple rejection | | MJI | complete | 100 |
| | | | | |
| 14.3 More sophisticated rejection dealing | g with pixellation | | | 0 |
| improve algorithms to deal with pixe | | MJI | | |
| | | | | |
| 15 Continuum subtraction and basic di | ifference imaging | 4.0 | | |
| 15.1 Simple WCS-based subtraction tech | niques | MJI | paused | 50 |
| | | | | |
| 15.2 investigate and apply different inter | polation methods | MJI | paused | 50 |
| | | | | |
| 15.3 develop adaptive kernel matching o | | | | 10 |
| improve CASU version and update of | difference imaging report | MJI | | |
| | | | | |
| 16 Interpolation techniques and PSF m | | 4.0 | | |
| 16.1 investigate alternative interpolation | | | | 50 |
| | | DWE | | |
| finish review and write short report on | alternatives | 2 | | |
| finish review and write short report on | | | | |
| finish review and write short report on 16.2 implications for different stacking meth | ods | | | 0 |
| finish review and write short report on | ods | MJI | | 0 |
| finish review and write short report on 16.2 implications for different stacking meth quantify effects of interpolation on stac | ods ked image quality | | | |
| finish review and write short report on 16.2 implications for different stacking meth quantify effects of interpolation on stac 16.3 implications for deriving catalogues | ods ked image quality and parameters | MJI | | |
| finish review and write short report on 16.2 implications for different stacking meth quantify effects of interpolation on stac 16.3 implications for deriving catalogues assess and write report on errors in ca | ods ked image quality a and parameters talogue parameters arising from using | | | |
| finish review and write short report on 16.2 implications for different stacking meth quantify effects of interpolation on stac 16.3 implications for deriving catalogues | ods ked image quality a and parameters talogue parameters arising from using | MJI | | |
| finish review and write short report on 16.2 implications for different stacking meth quantify effects of interpolation on stac 16.3 implications for deriving catalogues assess and write report on errors in ca different interpolation and interleaving | ods ked image quality and parameters talogue parameters arising from using schemes | MJI | | 50 |
| finish review and write short report on 16.2 implications for different stacking meth quantify effects of interpolation on stace 16.3 implications for deriving catalogues assess and write report on errors in ca different interpolation and interleaving 16.4 oversampled PSF generation per de | ods ked image quality a and parameters talogue parameters arising from using schemes | MJI DWE | | |
| finish review and write short report on 16.2 implications for different stacking meth quantify effects of interpolation on stac 16.3 implications for deriving catalogues assess and write report on errors in ca | ods ked image quality a and parameters talogue parameters arising from using schemes | MJI | | 50 |