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Summary

This document presents workpackage progress by CASU during October 2003.

For further details of group activities over the past month and quarter see

http://www.ast.cam.ac.uk/~wfcam/diary.html

For the minutes of all group meetings see

http://www.ast.cam.ac.uk/~wfcam/docs/minutes

Highlights

WP1.2 This is the remaining basis needed for the CASU-JAC ICD. So, in principle, this is also signed off - not sure about the practice since according to the web page the boxes ain't ticked yet. (99%).

WP1.3 A further iteration of the catalogue table format has been agreed together with the completion and agreement of the list-driven photometry design and output format. These were the remaining items in CASU-WFAU ICD. Version 3 of this has been issued and the document can now be signed off (at least in principle) since both CASU and WFAU agree on it. (99%)

WP1.4 Version 1.1 of WFCAM FITS header document agreed after a few more iterations and document signed off. (100%)

WP1.8 OMP database is now being mirrored using a homegrown DB sync tool. Replication server is too expensive and overly complex for the job (subtasks 100%)

WP2.5,2.8 A draft DID consisting of dictionary, FITS header example, and overview of observing strategy, was shipped out to SMB to help with the camera software design strategy and documentation for FDR. This included much interaction with SMB on camera software design documents for the camera FDR.

WP7.1,7.2 Made massive progress due to JRL's recent visit to JAC. Test pipelines in ORACDR for UFTI and dummy WFCAM are set up and running at JAC (100%). Latest version of test pipelines are deposited in CVS at CASU and

JAC (50%). Further development paused awaiting real WFCAM data and finalising observing strategy needed for real recipes

WP11.1 Primary photometric standards chosen for VISTA, star counts and colour distribution quantified.

WP13.2,13.3 A major leap forward in the design, and implementation, of the list-driven photometry WP was accomplished. This will now be sufficiently general to cope with V1 V2 et al. requirements. ie. WPs 13.2 and 13.3 have made major progress (50%)

WP15.3 Further improvements to the image subtraction/difference imaging WP mean that the prototype CASU software outperforms the alternative adaptive kernel packages. This needs a final shakedown, code tidy and further tests before being released at the end of Q4. Apart from bug fixes, minor tweaks and software maintenance this will complete WPs 15.1, 15.2 and 15.3 (50% for latter 2 currently since still a few odds and ends to sort out). Difference imaging report will shortly be updated and a new version issued.

WP16.1 Good progress on investigation of alternative interpolation strategies. This works feeds directly into the PSF modelling, data stacking and difference imaging packages.

Lowlights:

WP5.2 Data ingest server PC had to be returned for new model since didn't meet our specification. Still awaiting delivery of "correct" PC :-)

Still waiting for WFCAM engineering test data.