Document Number:	WFC-CAS-WPS-00000-00032	
Document Title:	End of Month Report Oct 05	
Document Authors:	Mike Irwin, Simon Hodgkin	
Document Issue:	1	
Document Date:	7/11/2005	

This document presents work package progress by CASU during October 2005. For further details of group activities over the past month and quarter see http://www.ast.cam.ac.uk/vdfs/diary.html. For the minutes of all group meetings see http://www.ast.cam.ac.uk/vdfs/docs/minutes

JAC telecon

A JAC telecon was held on 19 Oct with MJI, JRL, STH, PH and AA. Discussion centred on data processing, pipeline versions, timeframes for reprocessing and data release to the community. The basis for much of this discussion was a report that MJI had drafted for inclusion in the JAC report to the UKIRT Board Meeting on 17/18 November. We also discussed PI access to processed data, non-standard observing modes, and the flagging of failed MSBs

Throughput for the camera seems to have increased by around 2% (probably due to cleaning the field lens). JAC reported that it is now common to get seeing of 0.6 arcsec, which is confirmed with the CASU processing for 05B data.

WFCAM Processing Status

All of the processed 05A data has been transferred to WFAU. Raw WFCAM data have been ingested up until October 14th, and data up until October 4th are being processed. Changes in the various survey MSB designs have resulted in a significant reduction in the data volume.

EGS has used the DQC database to generate a WFCAM survey progress plot. This is part of a prototype for VISTA.

http://apm15.ast.cam.ac.uk/docs/wfcam/science-verification/ukidss_progress.png/view

Tests with the crosstalk removal algorithm have gone well, and this is now incorporated into the standard 2D processing for 05B.

We have been experiencing problems with the new disk server controllers. No data have been lost yet, but this is causing a slowdown for data ingestion.

WFCAM Photometry

STH has produced a report on the photometric calibration of WFCAM data available from

http://www.ast.cam.ac.uk/~wfcam/docs/reports/wfcam_photcal_report/index.html

It includes discussion of:

+ WFCAM throughput
+ spatial systematics (measured from mesostepping and 2MASS)
+ chip-to-chip variation
+ accuracy of the 2MASS-based calibration applied to UKIRT faint
standards

This report has been circulated to the UKIDSS community. STH and MJI met with the Calibration Working Group head (Paul Hewett) for comments and discussion. The plan is to revise this document by the end of November and to make specific recommendations concerning observing strategies for standard stars.

VST

Three UK-led public survey proposals for VST were submitted mid-October for consideration at the next OPC meeting in November. CASU were involved in writing the data processing and data management section. These are 4-5 year programmes targeting ~20% of the VST time.

VDFS

Version 0.1 of the CPL VISTA pipeline is on track and will consist of 4 recipes that are described in the DRLD. This version will also include a small number (<5) of 'extra' recipes which are required for unit testing of the data reduction modules. Full code documentation is still in progress. PSB is doing bug testing of the recipes. Once the documentation is complete and any obvious bugs rectified, the package will be released for external comment.

JRL presented a talk on VDFS/WFCAM processing at ADASS and showed some examples of the pipeline output generated for internal science verifcation by EGS.