



DESDM DC4

Single-Epoch Photometry Comparison

DES-Calib Telecon, 11 Feb 2009

From Choong Ngeow's e-mail regarding the plots on the DESDM wiki:

[The plots show] the histogram distribution of the mean (or median) offset between the photometry from DC4 reduction and the truth table. The mean (or median) offset is derived in the following way:

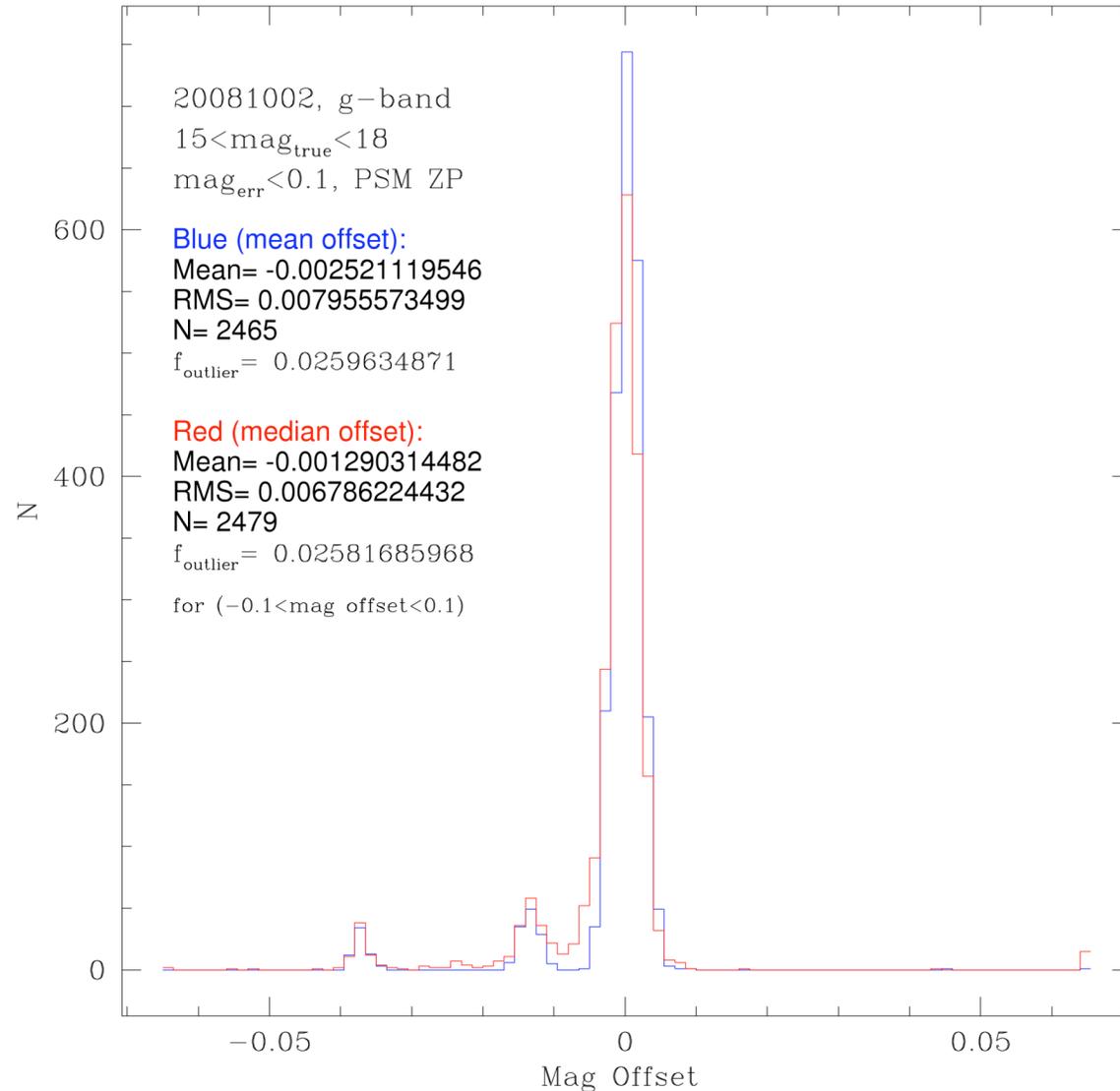
- for each DECam exposure (with 62 CCDs), match the objects from the reduced images and match them to the truth table.
- plot the `mag_truth` vs `delta(mag)`, where `delta(mag)` is `mag_true - mag_measure` from DC4 reduction, for all matched objects.
- calculate the mean (or median) offset for each exposure, after iteratively reject the outliers, and only apply to the certain mag range ($15 < \text{mag_true} < 18$)
- repeat for all exposures for a given nite, and plot the histogram of the mean (or median) offsets from all the exposures.

In the plot, the mean and RMS on the left is the mean and RMS of the distribution.



Single-Epoch Photometry Comparison for 2081002: g band

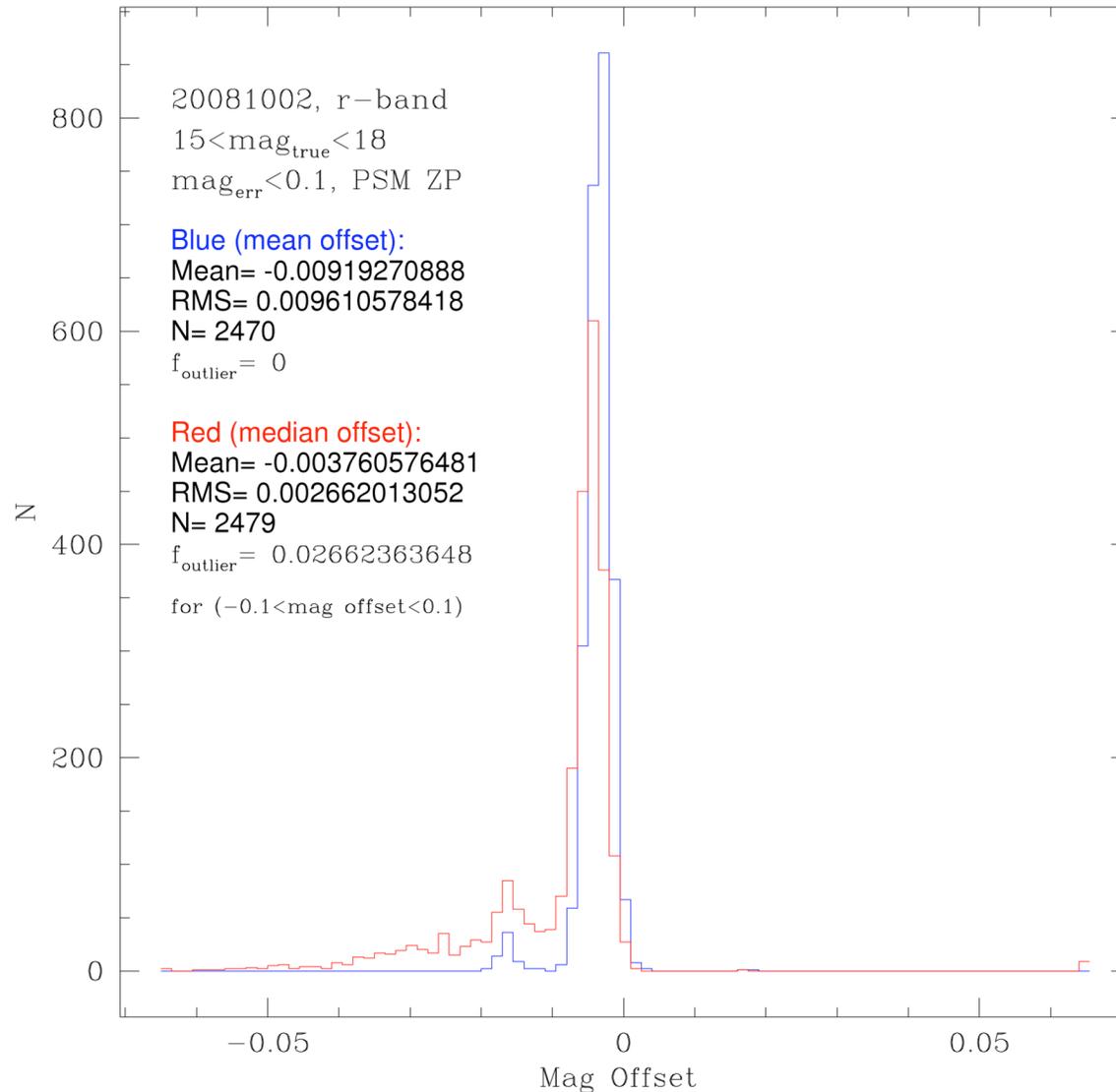
DARK ENERGY
SURVEY





Single-Epoch Photometry Comparison for 20081002: r band

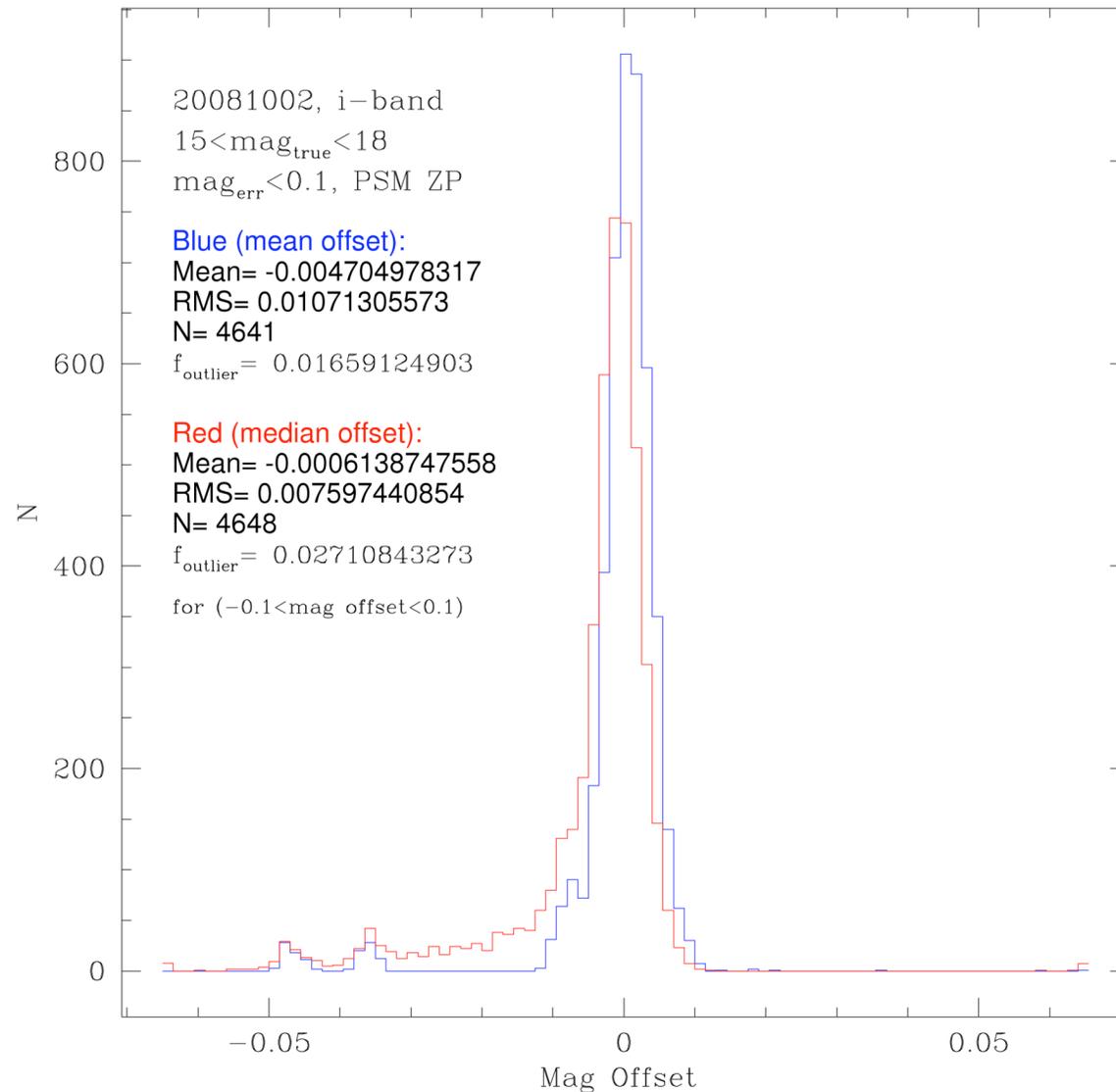
DARK ENERGY
SURVEY





Single-Epoch Photometry Comparison for 20081002: i band

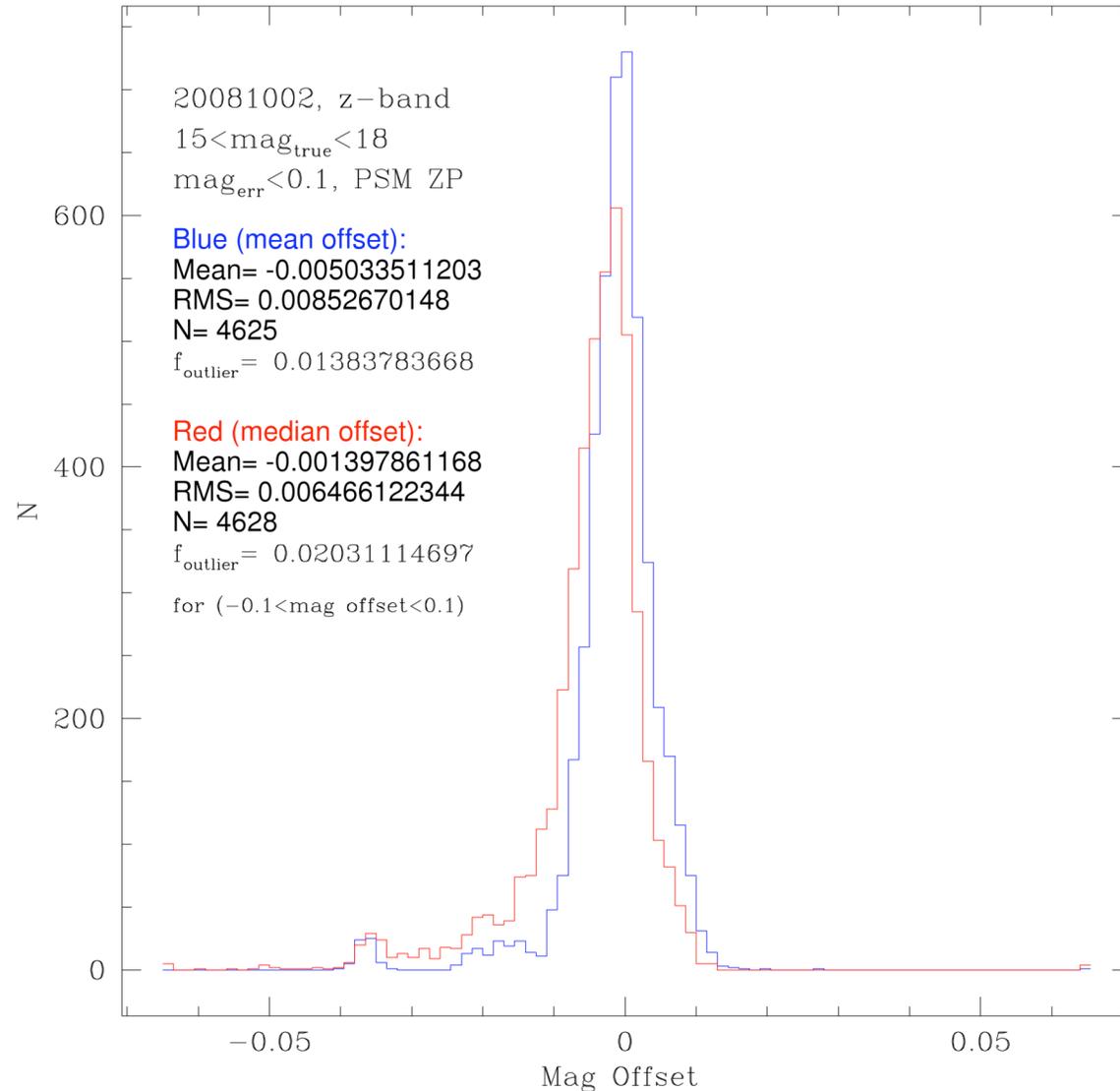
DARK ENERGY
SURVEY





Single-Epoch Photometry Comparison for 20081002: z band

DARK ENERGY
SURVEY





Single-Epoch Photometry Comparison for 2081002: Y band

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SURVEY

