S3 Fig. Analysis of the mean of estimates from the maximum likelihood localization of microspheres with a fixed width Airy pattern - second set of data sets statistically identical to the data sets of Figs. 3 through 6. Each plot shows the results for 13 data sets, each consisting of 1000 repeat images of a microsphere of a different size, simulated with parameters corresponding to one of six combinations of wavelength and imaging configuration (see the section Simulation parameters). Each image in a data set was fitted with an Airy pattern whose positional coordinates $x_0$ and $y_0$ were estimated, but whose width parameter $\alpha$ was fixed to the value determined by the numerical aperture and wavelength used to generate the data set. For each data set, the differences between the mean of the $x_0$ estimates and the true value $x_0$, and between the mean of the $y_0$ estimates and the true value $y_0$, are plotted in green and red if both of their magnitudes are within 3 and 2 times, respectively, their respective standard errors of the mean for an ideal estimator.