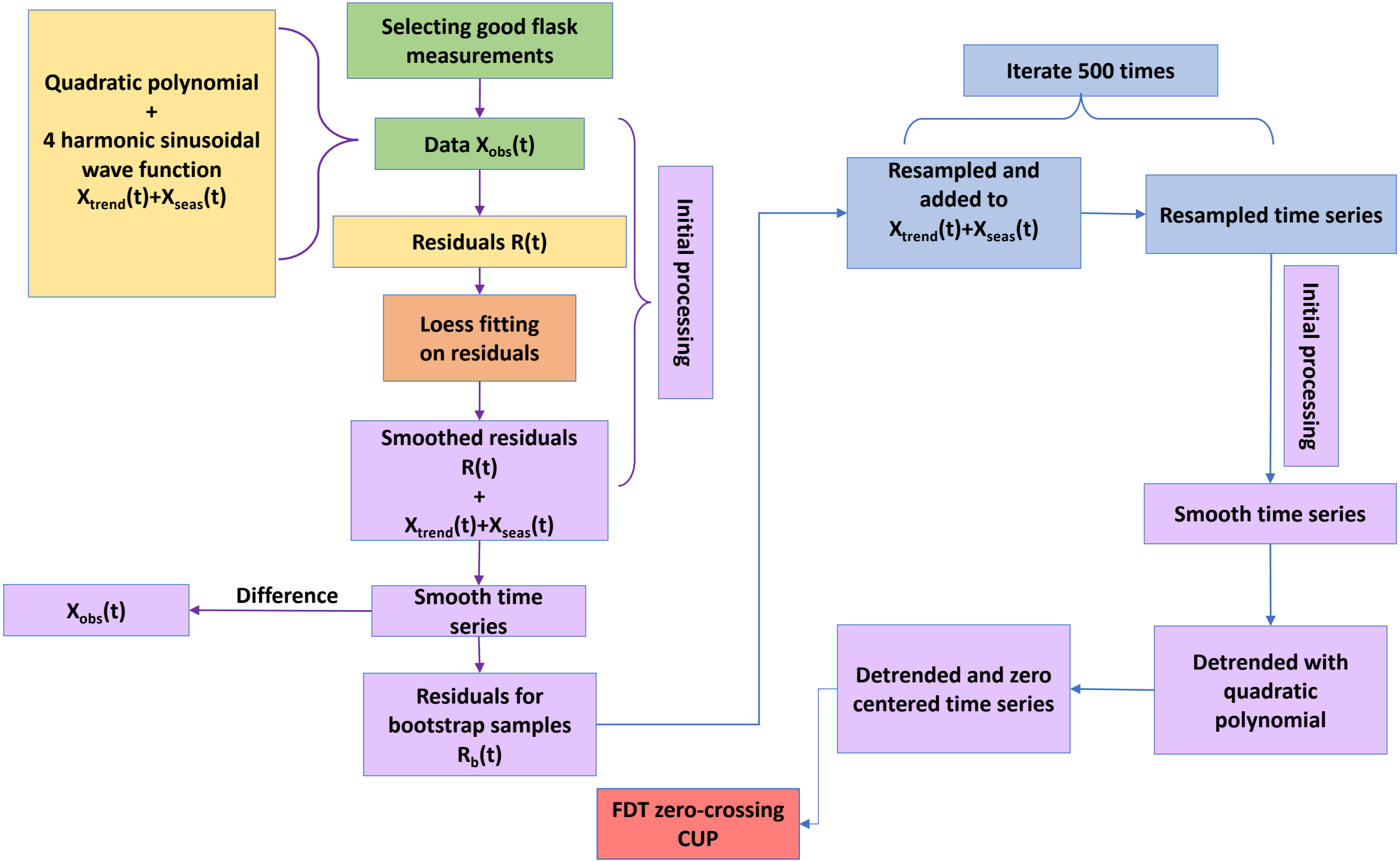
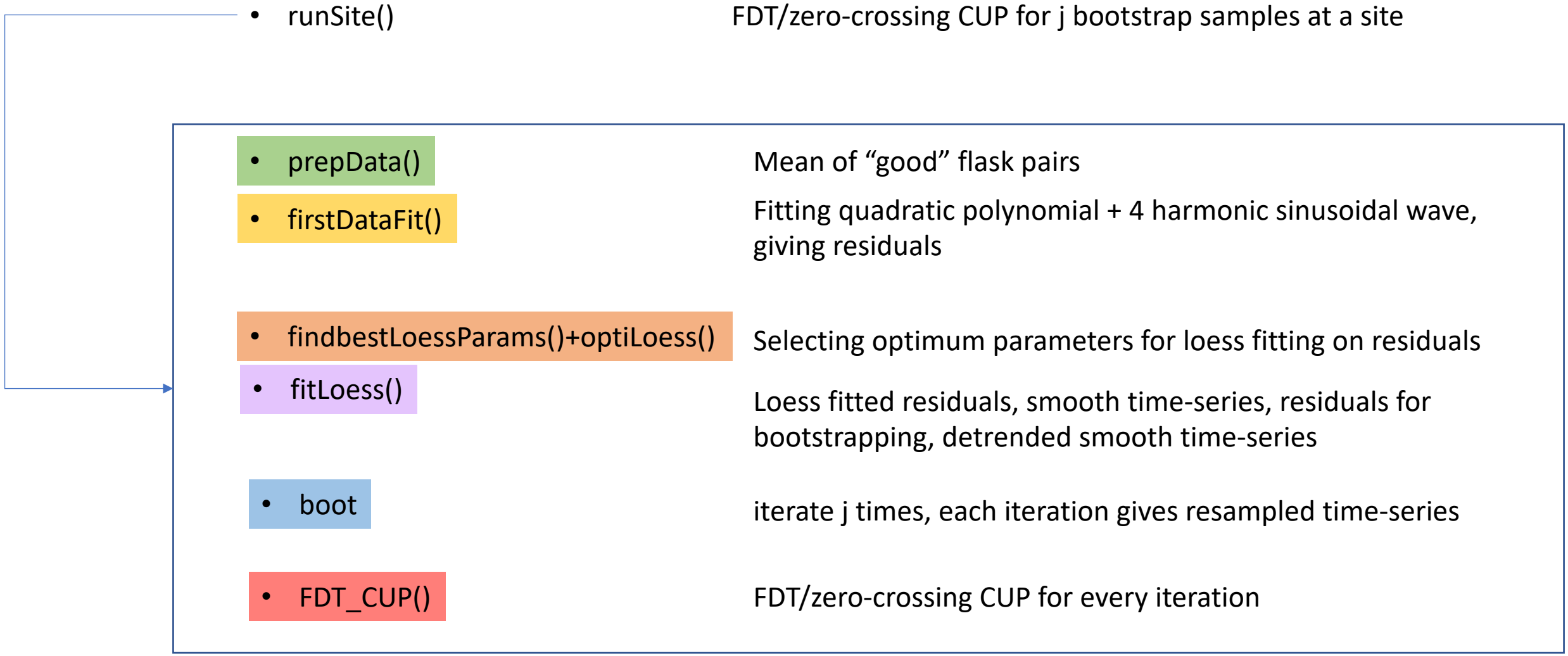
runSite()


Quadratic polynomial
+
4 harmonic sinusoidal wave function
$X_{trend}(t)+X_{seas}(t)$
Selecting good flask measurements
Data $X_{obs}(t)$
Residuals R(t)
Loess fitting on residuals
Smoothed residuals R(t)
+
$X_{trend}(t)+X_{seas}(t)$
Initial processing
$X_{obs}(t)$
Difference
Smooth time series
Residuals for bootstrap samples $R_b(t)$
Iterate 500 times
Resampled and added to $X_{trend}(t)+X_{seas}(t)$
Resampled time series
Initial processing
Smooth time series
Detrended with quadratic polynomial
Detrended and zero centered time series
FDT zero-crossing
CUP


• runSite()
FDT/zero-crossing CUP for j bootstrap samples at a site
• prepData()
Mean of “good” flask pairs
• firstDataFit()
Fitting quadratic polynomial + 4 harmonic sinusoidal wave, giving residuals
• findbestLoessParams()+optiLoess()
Selecting optimum parameters for loess fitting on residuals
• fitLoess()
Loess fitted residuals, smooth time-series, residuals for bootstrapping, detrended smooth time-series
• boot
iterate j times, each iteration gives resampled time-series
• FDT_CUP()
FDT/zero-crossing CUP for every iteration