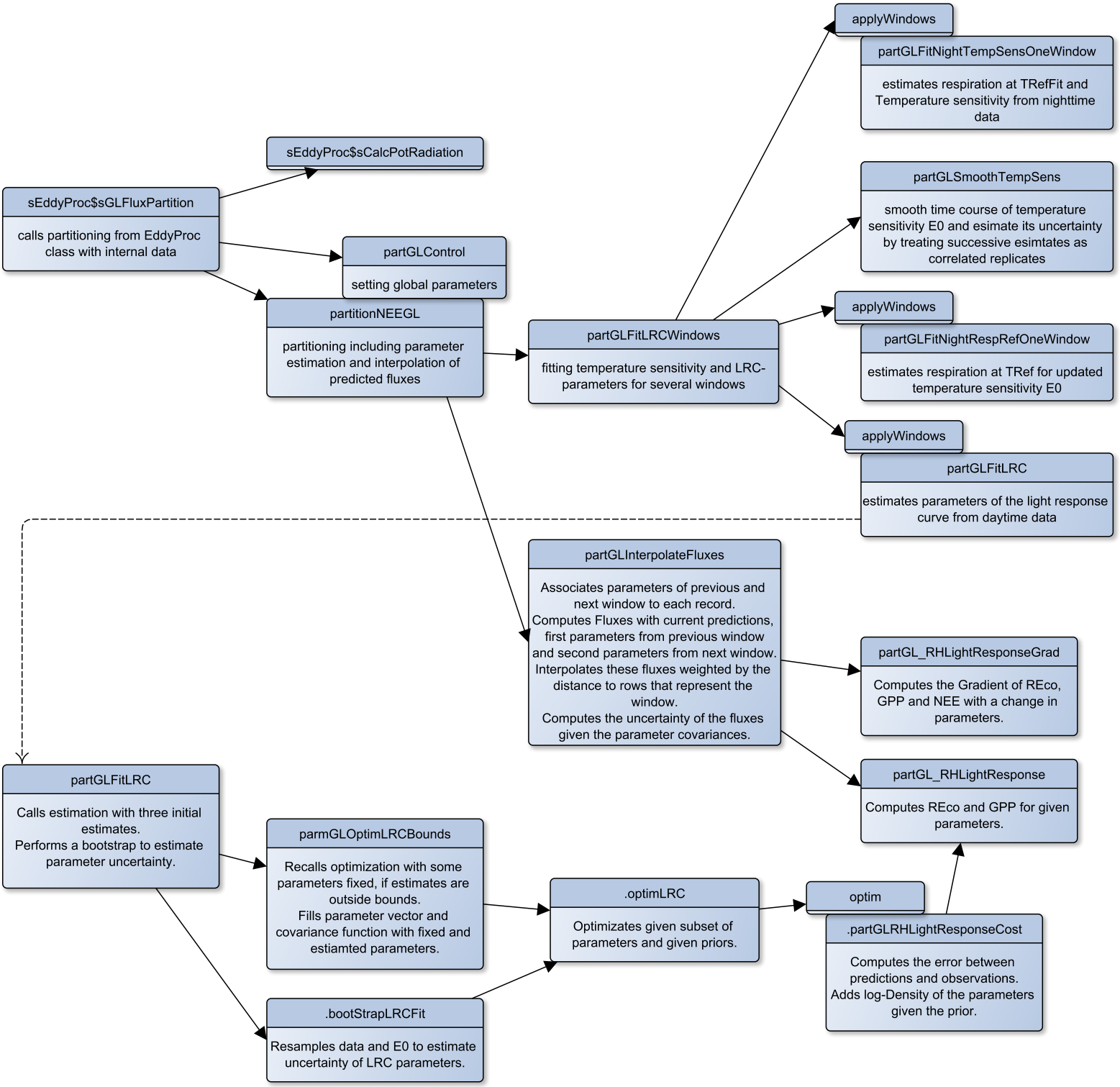
sEddyProc$sCalcPotRadiation
sEddyProc$sGLFluxPartition
calls partitioning from EddyProc class with internal data
partGLControl
setting global parameters
partitionNEEGL
partitioning including parameter estimation and interpolation of predicted fluxes
partGLFitLRCWindows
fitting temperature sensitivity and LRC-parameters for several windows
applyWindows
partGLFitNightTempSensOneWindow
estimates respiration at TRefFit and Temperature sensitivity from nighttime data
partGLSmoothTempSens
smooth time course of temperature sensitivity E0 and esimate its uncertainty by treating successive esimtates as correlated replicates
applyWindows
partGLFitNightRespRefOneWindow
estimates respiration at TRef for updated temperature sensitivity E0
applyWindows
partGLFitLRC
estimates parameters of the light response curve from daytime data
partGLInterpolateFluxes
Associates parameters of previous and next window to each record.
Computes Fluxes with current predictions, first parameters from previous window and second parameters from next window.
Interpolates these fluxes weighted by the distance to rows that represent the window.
Computes the uncertainty of the fluxes given the parameter covariances.
partGL_RHLightResponseGrad
Computes the Gradient of REco, GPP and NEE with a change in parameters.
partGL_RHLightResponse
Computes REco and GPP for given parameters.
partGLFitLRC
Calls estimation with three initial estimates.
Performs a bootstrap to estimate parameter uncertainty.
parmGLOptimLRCBounds
Recalls optimization with some parameters fixed, if estimates are outside bounds.
Fills parameter vector and covariance function with fixed and estiamted parameters.
.optimLRC
Optimizates given subset of parameters and given priors.
optim
.partGLRHLightResponseCost
Computes the error between predictions and observations.
Adds log-Density of the parameters given the prior.
.bootStrapLRCFit
Resamples data and E0 to estimate uncertainty of LRC parameters.