

Cheatsheet for R package StrathE2E version 3.3.0 (<https://gitlab.com/MarineResourceModelling/StrathE2E/StrathE2E>)

Model house-keeping		Parameter estimation	
e2e_ls()	List the available models in a designated workspace	e2e_optimize_eco()	Optimize ecology model parameters
e2e_copy()	Make a copy of a named model/variant	e2e_optimize_hr()	Optimize fleet model harvest ratio scaling parameters
e2e_get_parmdoc()	Download parameter documentation as a dataframe	e2e_optimize_act()	Optimize fleet model fishing activity parameters
Basic model operations		Sensitivity and Monte Carlo analyses	
e2e_read()	Read a model setup from a given workspace	e2e_run_sens()	Run a global parameter sensitivity analysis for a given model setup
e2e_run()	Run StrathE2E for a prescribed number of years with a given setup	e2e_run_mc()	Run a Monte Carlo analysis with given model setup
e2e_extract_start()	Create a new initial values file from the end of a model run	e2e_merge_sens_mc()	Merge parallel processing files from sensitivity or Monte Carlo runs
e2e_extract_hr()	Extract the values of harvest ratios generated by the fleet model	e2e_process_sens_mc()	Post-process raw output data from sensitivity or Monte Carlo runs
e2e_plot_ts()	Time-series plots of model outputs for the full duration of a run	e2e_plot_sen_mc()	Plot diagnostic results from sensitivity or Monte Carlo runs
Visualize model inputs		e2e_get_senscrit()	List the model outputs available as the basis for sensitivity analysis
e2e_plot_edrivers()	Plot a climatological year of environmental driving data	Compare model runs and observations	
e2e_plot_fdrivers()	Plot distributions of fishery-related driving data	e2e_compare_obs()	Box-plot comparisons between observations and model outputs
Visualize model outputs from the final year of a run		e2e_compare_runs_box()	Box-plot comparisons between two different model runs
e2e_plot_eco()	Plot annual cycles of ecology model variables	e2e_compare_runs_bar()	Tornado bar-plot comparisons between two different model runs
e2e_plot_migration()	Plot annual cycles of active migration fluxes	Fishery yield analyses	
e2e_plot_catch()	Plot distributions of annual landings and discards	e2e_run_ycurve()	Perform a set of model runs to generate fishery yield curve data
e2e_plot_trophic()	Plot mean trophic level and omnivory indices	e2e_plot_ycurve()	Plot fishery yield curve data
e2e_plot_biomass()	Plot zonal distributions of annual average biomass densities	Getting help	
Quick start <pre>library(StrathE2E) model <- e2e_read("North_Sea", "1970-1999") e2e_plot_edrivers(model) results <- e2e_run(model, nyears=5) e2e_plot_ts(model, results, selection="ECO")</pre>		help(StrathE2E)	Load package help page
		vignette("StrathE2E_CheatSheet")	Load this CheatSheet
		help(function_name)	Load function help page
		https://marineresourcmodelling.gitlab.io/resources/index.html	Package website: User Manual, Technical Manual, and more