

Cheatsheet: R package StrathE2EPolar version 2.0.0 (<https://gitlab.com/MarineResourceModelling/StrathE2E/StrathE2EPolar>)

Model house-keeping		Parameter estimation	
e2ep_ls()	List the available models in a designated workspace	e2ep_optimize_eco()	Optimize ecology model parameters
e2ep_copy()	Make a copy of a named model/variant	e2ep_optimize_hr()	Optimize fleet model harvest ratio scaling parameters
e2ep_get_parmdoc()	Download parameter documentation as a dataframe	e2ep_optimize_act()	Optimize fleet model fishing activity parameters
Basic model operations		Sensitivity and Monte Carlo analyses	
e2ep_read()	Read a model setup from a given workspace	e2ep_run_sens()	Run a global parameter sensitivity analysis for a given model setup
e2ep_run()	Run StrathE2E for a prescribed number of years with a given setup	e2ep_run_mc()	Run a Monte Carlo analysis with given model setup
e2ep_extract_start()	Create a new initial values file from the end of a model run	e2ep_merge_sens_mc()	Merge parallel processing files from sensitivity or Monte Carlo runs
e2ep_extract_hr()	Extract the values of harvest ratios generated by the fleet model	e2ep_process_sens_mc()	Post-process raw output data from sensitivity or Monte Carlo runs
e2ep_plot_ts()	Time-series plots of model outputs for the full duration of a run	e2ep_plot_sen_mc()	Plot diagnostic results from sensitivity or Monte Carlo runs
Visualize model inputs		e2ep_get_senscrit()	List the model outputs available as the basis for sensitivity analysis
e2ep_plot_edrivers()	Plot a climatological year of environmental driving data	Compare model runs and observations	
e2ep_plot_fdrivers()	Plot distributions of fishery-related driving data	e2ep_compare_obs()	Box-plot comparisons between observations and model outputs
Visualize model outputs from the final year of a run		e2ep_compare_runs_box()	Box-plot comparisons between two different model runs
e2ep_plot_eco()	Plot annual cycles of ecology model variables	e2ep_compare_runs_bar()	Tornado bar-plot comparisons between two different model runs
e2ep_plot_migration()	Plot annual cycles of active migration fluxes	Fishery yield analyses	
e2ep_plot_catch()	Plot distributions of annual landings and discards	e2ep_run_ycurve()	Perform a set of model runs to generate fishery field curve data
e2ep_plot_trophic()	Plot mean trophic level and omnivory indices	e2ep_plot_ycurve()	Plot fishery yield curve data
e2ep_plot_biomass()	Plot zonal distributions of annual average biomass densities	Getting help	
Quick start		help (StrathE2EPolar)	Load package help page
library(StrathE2EPolar)		vignette("StrathE2EPolar_CheatSheet")	Load this CheatSheet
model <- e2ep_read ("Barents_Sea", "2011-2019")		help(function_name)	Load function help page
e2ep_plot_edrivers(model)		https://marineresourcmodelling.gitlab.io/resources/index.html	Package website: User Manual, Technical Manual, and more
results <- e2ep_run(model, nyears=5)			
e2ep_plot_ts(model, results, selection="ECO")			
# Load the package			
# Read an internal model setup			
# Plots of the driving data			
# Run the model for 5 years			
# Plot time series of results			