GITHUB CONTENTS: RATE DEPENDENCE PROJECT

File Name	Purpose
3driver plots 3epsilon 2025-05-21.R	Fig. 1, driver curves at
which uses output files from the simulations for Figures 2, 4, 6	3 rates
SIM3 p0 max3 eps0dot3+chl+forecast v2refuge PAR-P-Z 2025-	Fig. 2, Enrichment
05-10.R	simulations and
and	dynamic indicators of
SIM3 p0 max3 eps1-or-3+chl+forecast v2refuge PAR-P-Z 2025-	resilience at 3 values of
05-10.R	epsilon
which call	1
Constants+Functions PAR-P-Z 2025-03-29.R	
and use data in	
chl+drivers 3lakes.Rdata	
followed by construction of the composite figure	
5results-X-3epsilon_for p0expt_2025-05-22.R	
SIM3 kNCspeeds+chl+forecast V2refuge PAR-P-Z 2025-04-12.R	Fig. 4, kNC
which calls:	simulations and
Constants+Functions PAR-P-Z 2025-03-29.R	dynamic indicators of
and uses data in:	resilience at 3 values of
chl+drivers 3lakes.Rdata	epsilon
followed by construction of the composite figure:	1
5results-X-3epsilon_for kNCexpt_2025-05-22.R	
qE rate expts Cascade EcoLetts2008 V3 2025-05-17.R	Fig. 6, piscivore
which calls	harvest simulations and
Constants+Functions_qE_Cascade_2025-05-15.R	dynamic indicators of
uses critical point in	resilience at 3 values of
Crit_qE_AdultPisc.Rdata	epsilon
and is followed by analyses and graphics:	
Run_ForecastDLM_qE_cascade_model_2025-05-17.R	
and construction of the composite figure by	
5results-X-3epsilon_for qEexpt_2025-05-22.R	
R scripts for Fig. 2 were rerun with sigma divided by 10	Fig. 3, Enrichment
	simulations and
	dynamic indicators of
	resilience at 3 values of
	epsilon with small
	additive noise
	Fig. 5, kNC
	simulations and
R scripts for Fig. 2 were rerun with sigma divided by 10	dynamic indicators of
	resilience at 3 levels of
	epsilon with small
	additive noise

R scripts for Fig. 3 were rerun with sigma values for planktivores,	Fig. 7 piggiyara
herbivores and phytoplankton divided by 10	Fig. 7, piscivore harvest simulations and
herorvores and phytopiankton divided by 10	
	dynamic indicators of
	resilience at 3 values of
	epsilon with small
	additive noise
Fit_EXPTS_3lakes_2024_v2refuge_PAR-P-Zmodel_2024-12-26.R	Fit of the model in
and	Appendix B to daily
Fit_EXPTS_3lakes_2024_v2refuge_Profile_Likelihoods_2024-12-	observations from 3
27.R	lakes in 2024
which use data in	
chl+drivers_3lakes.Rdata	
SIM2_vinf-	Fig. B1, critical values
Crit_kNC_P0_Peter2024_v2refuge_MapCritPts+limits.R	of enrichment rate
which calls:	versus kNC and
Constants+Functions_PAR-P-Z_2025-03-29.R	critical values of kNC
	versus enrichment rate
	and
	Fig. B2, chlorophyll
	equilibria versus
	enrichment rate and
	versus kNC
Find critical point for piscivore harvest rate	Fig. C1, critical point
Cascade crit qE A F 2025-05-12.R	of piscivore harvest
Then plot the figure	model
Fish Thresh3 plot for Appendix.r	