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Appendix B. Simulation input parameters and default values.

Table B1. Input parameters to the salmon metapopulation simulation with default values.

Description	Symbol	Value	Reference
Population dynamics parameters			
Stock-recruit residual standard deviation (on log scale)	σ_r	0.7	Thorson et al. 2014
AR(1) serial correlation of stock-recruit residuals	ρ_w	0.4	Thorson et al. 2014
Fraction of fish that stray from natal streams	f_{stray}	0.02	Quinn 2005 and references therein
Exponential rate of decay of straying with distance	m	0.1	Cooper and Mangel 1999
Range of maximum productivities	$a_i^{\max}$	2.2–2.9	Dorner et al. 2008
Environmental parameters			
Width parameter for thermal-tolerance curves for populations i 1 to n (values generate widths in line with listed references)	W_i	0.08–0.04–0.08	Brett 1952; Eliason et al. 2011
Optimum environmental value for populations i 1 to n	e_i^{opt}	13–19	Eliason et al. 2011
Standard deviation of annual temperature fluctuations	σ_d	2	Eliason et al. 2011
AR(1) autocorrelation of annual temperature fluctuations	ρ_e	0.1	
Annual increase in stream temperature in degrees Celcius	β_e	0.04	Mantua et al. 2010
Fishery parameters			
Standard deviation of beta distribution for implementation error	σ_h	0.1	Pestes et al. 2008
Frequency of assessment (years)	f_{assess}	5	

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