

Table S5 Variance parameters for the overall and maturity-group-specific growth models of fork length.

Term	Var	SE	Var/SE	χ^2_1	P
A: overall					
<i>spl(Time):Maturity</i>	6.6E-06	4.0E-06	1.7	24.2	<0.001
<i>spl(Time):Cross:Maturity</i>	5.6E-07	2.7E-07	2.1	15.6	<0.001
<i>dev(Time)</i>	3.2E-06	5.0E-06	0.6	1.5	0.219
<i>Sediment:Salinity:dev(Time)</i>	2.5E-06	1.7E-06	1.5	3.0	0.083
<i>Sediment:Cross:dev(Time)</i>	2.3E-07	2.0E-07	1.2	2.7	0.101
<i>Sediment:Maturity:dev(Time)</i>	8.1E-07	6.3E-07	1.3	8.4	0.004
^a Tank	NA	NA	NA	NA	NA
Tank:lin(<i>Time</i>)	1.6E-08	8.0E-08	0.2	0.05	0.829
Tank:spl(<i>Time</i>)	7.1E-07	4.1E-07	1.7	24.6	<0.001
WW-females:spl(<i>Time</i>)	5.2E-06	1.1E-06	4.8		
WW-males:spl(<i>Time</i>)	2.6E-06	7.0E-07	3.8		
WW-immature:spl(<i>Time</i>)	9.9E-06	2.7E-06	3.7		
BC-females:spl(<i>Time</i>)	5.6E-06	1.4E-06	4.0		
BC-males:spl(<i>Time</i>)	4.5E-06	1.3E-06	3.5		
BC-immature:spl(<i>Time</i>)	9.0E-06	1.5E-06	6.0		
F1-females:spl(<i>Time</i>)	1.2E-05	2.7E-06	4.4		
F1-males:spl(<i>Time</i>)	4.0E-06	1.0E-06	3.8		
F1-immature:spl(<i>Time</i>)	6.4E-06	1.1E-06	5.7		
F2-females:spl(<i>Time</i>)	9.0E-06	2.5E-06	3.7		
F2-males:spl(<i>Time</i>)	2.7E-06	8.8E-07	3.1		
F2-immature:spl(<i>Time</i>)	7.2E-06	1.2E-06	6.0		
DD-females:spl(<i>Time</i>)	1.9E-05	5.2E-06	3.5		
DD-males:spl(<i>Time</i>)	1.1E-05	2.0E-06	5.4		
DD-immature:spl(<i>Time</i>)	1.2E-05	2.1E-06	5.9		
WW-females intercept	6.8E-03	1.1E-03	6.0		
WW-females cov(intercept, slope)	-3.9E-05	3.0E-05	-1.3		
WW-females:Time	9.1E-06	1.6E-06	5.7		
WW-males intercept	1.1E-02	1.8E-03	6.1		
WW-males cov(intercept, slope)	-6.0E-05	3.2E-05	-1.8		
WW-males:Time	6.5E-06	1.1E-06	5.7		
WW- immature intercept	6.6E-03	1.7E-03	4.0		
WW- immature cov(intercept, slope)	-5.8E-05	7.6E-05	-0.8		
WW- immature:Time	2.7E-05	6.8E-06	3.9		
BC-females intercept	2.0E-02	4.3E-03	4.7		
BC-females cov(intercept, slope)	-1.5E-04	8.0E-05	-1.8		

Term	Var	SE	Var/SE	X_1^2	P
BC-females: <i>Time</i>	1.3E-05	2.8E-06	4.6		
BC-males intercept	1.3E-02	2.7E-03	4.6		
BC-males cov(intercept, slope)	-9.7E-05	6.6E-05	-1.5		
BC-males: <i>Time</i>	1.4E-05	3.0E-06	4.5		
BC- immature intercept	8.2E-03	1.2E-03	6.7		
BC- immature cov(intercept, slope)	-9.5E-05	3.8E-05	-2.5		
BC- immature: <i>Time</i>	1.4E-05	2.2E-06	6.5		
F1-females intercept	1.6E-02	3.6E-03	4.4		
F1-females cov(intercept, slope)	3.5E-05	7.3E-05	0.5		
F1-females: <i>Time</i>	1.3E-05	3.0E-06	4.2		
F1-males intercept	1.5E-02	2.8E-03	5.2		
F1-males cov(intercept, slope)	2.4E-05	5.7E-05	0.4		
F1-males: <i>Time</i>	1.1E-05	2.3E-06	5.0		
F1- immature intercept	1.2E-02	1.7E-03	7.0		
F1- immature cov(intercept, slope)	6.7E-05	4.1E-05	1.6		
F1- immature: <i>Time</i>	1.3E-05	2.0E-06	6.8		
F2-females intercept	1.1E-02	2.8E-03	3.9		
F2-females cov(intercept, slope)	-1.2E-04	6.7E-05	-1.7		
F2-females: <i>Time</i>	1.1E-05	2.8E-06	3.8		
F2-males intercept	1.8E-02	3.7E-03	5.0		
F2-males cov(intercept, slope)	-1.6E-04	6.3E-05	-2.5		
F2-males: <i>Time</i>	8.9E-06	1.9E-06	4.7		
F2- immature intercept	8.0E-03	1.1E-03	7.2		
F2- immature cov(intercept, slope)	-9.9E-05	3.1E-05	-3.1		
F2- immature: <i>Time</i>	1.1E-05	1.6E-06	6.9		
DD-females intercept	4.9E-03	1.4E-03	3.4		
DD-females cov(intercept, slope)	7.8E-05	8.1E-05	1.0		
DD-females: <i>Time</i>	2.9E-05	8.7E-06	3.3		
DD-males intercept	9.3E-03	1.5E-03	6.1		
DD-males cov(intercept, slope)	4.7E-05	5.2E-05	0.9		
DD-males: <i>Time</i>	2.1E-05	3.5E-06	6.0		
DD- immature intercept	5.8E-03	9.0E-04	6.4		
DD- immature cov(intercept, slope)	4.3E-05	4.0E-05	1.1		
DD- immature: <i>Time</i>	2.2E-05	3.5E-06	6.3		
Residuals	2.0E-05	8.6E-07	23.0		
B: immature					
spl(<i>Time</i>)	1.20E-05	2.15E-05	0.6	0.5	0.462
spl(<i>Time</i>): <i>Cross</i>	8.76E-07	6.43E-07	1.4	8.3	0.004

Term	Var	SE	Var/SE	X_1^2	P
<i>spl(Time):Sediment</i>	2.57E-06	2.72E-06	0.9	11.3	<0.001
<i>spl(Time):Salinity</i>	1.66E-06	2.07E-06	0.8	2.7	0.100
<i>dev(Time)</i>	9.84E-06	1.98E-05	0.5	0.5	0.474
<i>Salinity:Cross:dev(Time)</i>	9.07E-07	6.70E-07	1.4	4.1	0.042
<i>dev(Time):Tank</i>	2.30E-06	1.16E-06	2.0	22.6	<0.001
^a Tank	NA	NA	NA	NA	NA
Tank:lin(<i>Time</i>)	2.33E-12	1.51E-13	15.4	1.6	0.204
WW: <i>spl(Time)</i>	9.31E-06	2.62E-06	3.6		
BC: <i>spl(Time)</i>	8.29E-06	1.47E-06	5.6		
F1: <i>spl(Time)</i>	5.80E-06	1.10E-06	5.3		
F2: <i>spl(Time)</i>	6.29E-06	1.13E-06	5.6		
DD: <i>spl(Time)</i>	1.07E-05	1.93E-06	5.5		
WW intercept	6.46E-03	1.63E-03	4.0		
WW cov(intercept, slope)	-4.58E-05	7.43E-05	-0.6		
WW: <i>Time</i>	2.61E-05	6.68E-06	3.9		
BC intercept	8.17E-03	1.22E-03	6.7		
BC cov(intercept, slope)	-9.47E-05	3.82E-05	-2.5		
BC: <i>Time</i>	1.44E-05	2.22E-06	6.5		
F1 intercept	1.20E-02	1.70E-03	7.0		
F1 cov(intercept, slope)	6.56E-05	4.16E-05	1.6		
F1: <i>Time</i>	1.34E-05	1.99E-06	6.7		
F2 intercept	7.88E-03	1.10E-03	7.2		
F2 cov(intercept, slope)	-9.83E-05	3.08E-05	-3.2		
F2: <i>Time</i>	1.07E-05	1.56E-06	6.9		
DD intercept	5.88E-03	9.24E-04	6.4		
DD cov(intercept, slope)	4.60E-05	4.03E-05	1.1		
DD: <i>Time</i>	2.20E-05	3.48E-06	6.3		
Residuals	2.30E-05	1.49E-06	15.4		
C: females					
<i>spl(Time)</i>	2.6E-06	3.7E-06	0.7	2.5	0.112
<i>spl(Time):Tank</i>	1.2E-06	7.1E-07	1.7	9.5	0.002
<i>Sediment:dev(Time)</i>	3.2E-06	3.3E-06	1.0	3.9	0.049
^a Tank	NA	NA	NA	NA	NA
Tank:lin(<i>Time</i>)	5.0E-07	5.3E-07	0.9	1.6	0.204
WW: <i>spl(Time)</i>	5.3E-06	1.1E-06	4.9		
BC: <i>spl(Time)</i>	6.5E-06	1.6E-06	4.1		
F1: <i>spl(Time)</i>	1.1E-05	2.6E-06	4.4		
F2: <i>spl(Time)</i>	1.0E-05	2.7E-06	3.8		

Term	Var	SE	Var/SE	X_1^2	P
DD:spl(<i>Time</i>)	2.4E-05	6.3E-06	3.8		
WW intercept	6.7E-03	1.1E-03	6.0		
WW cov(intercept, slope)	-4.2E-05	3.0E-05	-1.4		
WW: <i>Time</i>	8.9E-06	1.6E-06	5.7		
BC intercept	2.0E-02	4.3E-03	4.7		
BC cov(intercept, slope)	-1.4E-04	7.8E-05	-1.8		
BC: <i>Time</i>	1.2E-05	2.7E-06	4.5		
F1 intercept	1.5E-02	3.5E-03	4.4		
F1 cov(intercept, slope)	4.0E-05	7.3E-05	0.5		
F1: <i>Time</i>	1.3E-05	3.1E-06	4.2		
F2 intercept	1.1E-02	2.8E-03	3.9		
F2 cov(intercept, slope)	-9.8E-05	6.8E-05	-1.4		
F2: <i>Time</i>	1.1E-05	3.1E-06	3.7		
DD intercept	4.8E-03	1.4E-03	3.4		
DD cov(intercept, slope)	7.7E-05	7.9E-05	1.0		
DD: <i>Time</i>	2.8E-05	8.6E-06	3.3		
Residuals	1.7E-05	1.6E-06	10.9		
D: males					
spl(<i>Time</i>)	1.46E-06	1.82E-06	0.8	8.6	0.003
Tank	5.04E-05	2.14E-04	0.2	0.1	0.806
^a Tank:lin(<i>Time</i>)	NA	NA	NA	NA	NA
Cross:dev(<i>Time</i>)	6.42E-07	4.92E-07	1.3	5.7	0.017
Sediment:Salinity:dev(<i>Time</i>)	3.24E-06	1.63E-06	2.0	61.6	<0.001
WW:spl(<i>Time</i>)	2.82E-06	7.07E-07	4.0		
BC:spl(<i>Time</i>)	5.04E-06	1.37E-06	3.7		
F1:spl(<i>Time</i>)	4.82E-06	1.16E-06	4.1		
F2:spl(<i>Time</i>)	3.02E-06	8.99E-07	3.4		
DD:spl(<i>Time</i>)	1.30E-05	2.29E-06	5.7		
WW intercept	1.08E-02	1.80E-03	6.0		
WW cov(intercept, slope)	-6.33E-05	3.29E-05	-1.9		
WW: <i>Time</i>	6.55E-06	1.14E-06	5.7		
BC intercept	1.25E-02	2.72E-03	4.6		
BC cov(intercept, slope)	-9.85E-05	6.59E-05	-1.5		
BC: <i>Time</i>	1.36E-05	3.03E-06	4.5		
F1 intercept	1.43E-02	2.77E-03	5.1		
F1 cov(intercept, slope)	1.92E-05	5.84E-05	0.3		
F1: <i>Time</i>	1.23E-05	2.45E-06	5.0		
F2 intercept	1.83E-02	3.67E-03	5.0		

Term	Var	SE	Var/SE	χ^2_1	P
F2 cov(intercept, slope)	-1.53E-04	6.29E-05	-2.4		
F2: <i>Time</i>	9.05E-06	1.89E-06	4.8		
DD intercept	9.38E-03	1.53E-03	6.1		
DD cov(intercept, slope)	4.39E-05	5.17E-05	0.8		
DD: <i>Time</i>	2.08E-05	3.45E-06	6.0		
Residuals	1.72E-05	1.31E-06	13.1		

^aVariance was constrained to be positive and converged to zero.

Comments: Parameters are given for the overall model (**A**), and for maturity groups of immature individuals (**B**), females (**C**), and males (**D**). A colon between terms indicates the formation of the interaction. Some terms contain splines (*spl(Time)*) and deviations (*dev(Time)*) from linear trajectories. Among-individual (co)variances are given for each cross. Crosses are abbreviated with WW, wild; F1, first-generation hybrid; F2, second-generation hybrid; and DD, domesticated Atlantic salmon. The covariance between among-individual variances for intercepts and slopes (interaction of individual with *Time*) is abbreviated by 'cov'. For all among-group variance parameters, the results from REML-likelihood ratio tests (LRT) are given as test-statistic (χ^2 , all with 1 degree of freedom) and probability of being different from zero (P). LRT results for among-individual (co)variance terms are reported in supplementary Table S3.