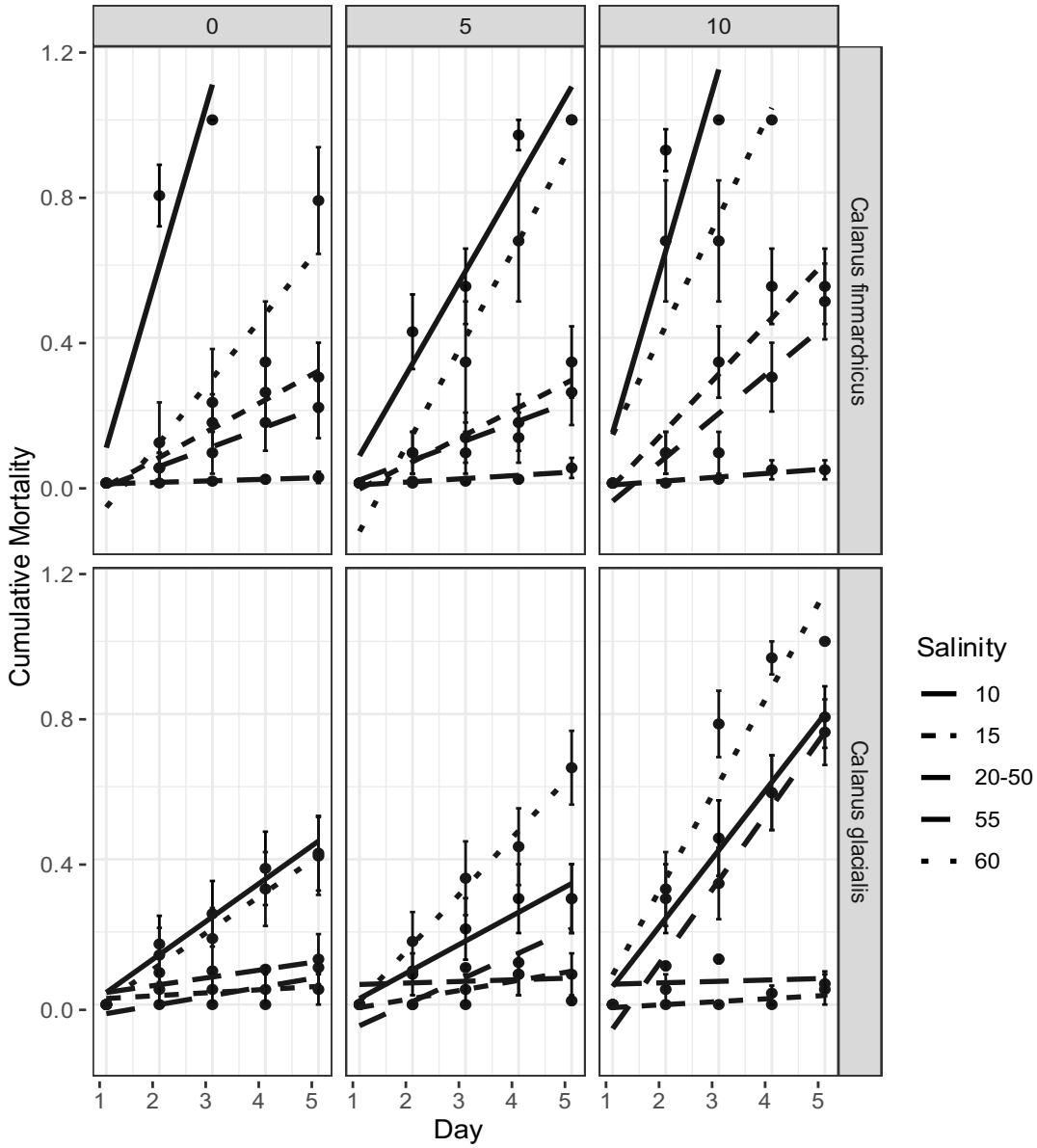

Figure S1: Fitted linear models on cumulative mortality estimates at each exposure period. The points represent the mean mortality estimated from the 24 animals in the multi-well plates, and the error bars denote the standard error of these estimates.

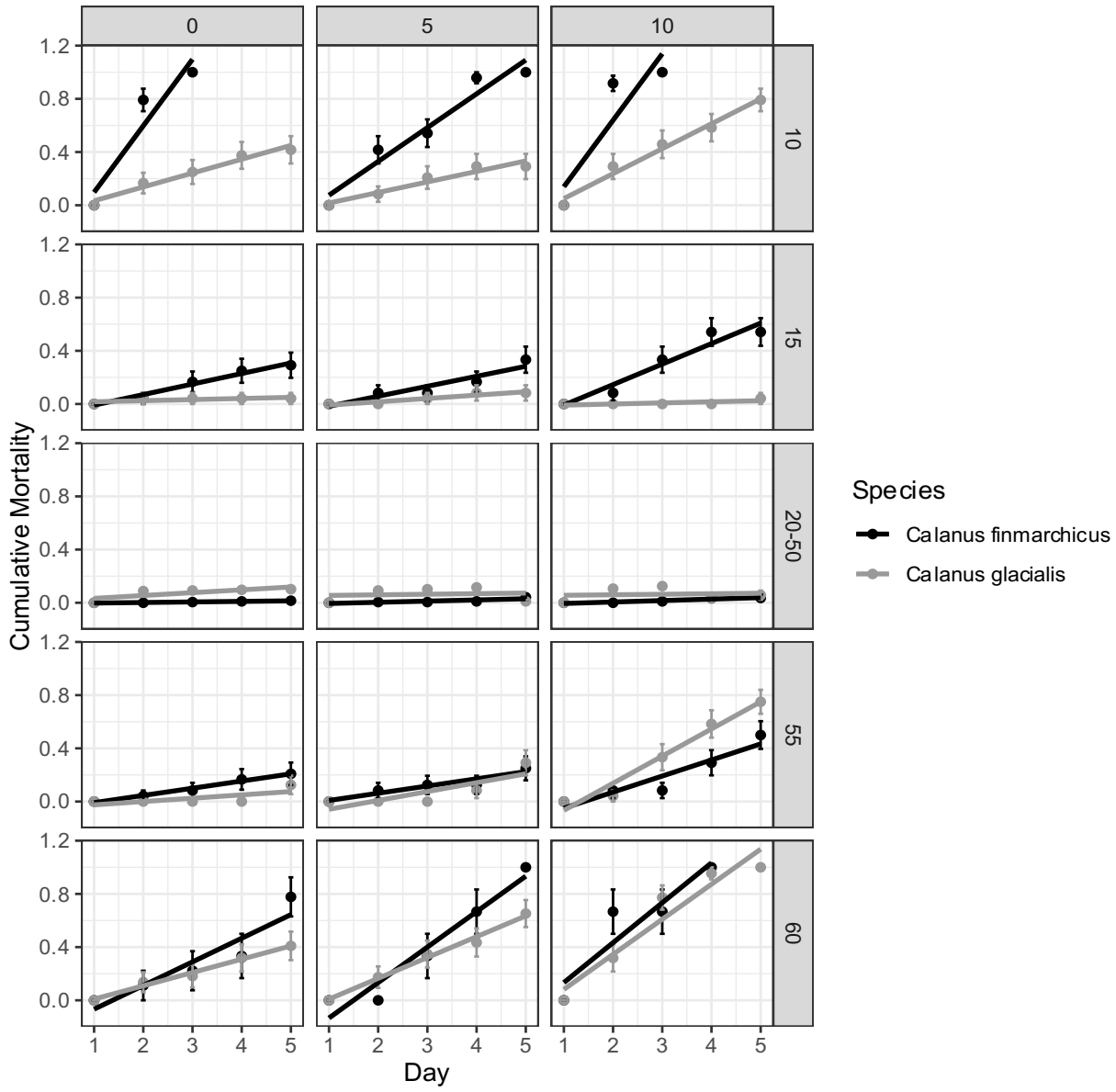

Figure S2: Fitted linear models on cumulative mortality estimates at each exposure period. The points represent the mean mortality estimated from the 24 animals in the multi-well plates, and the error bars denote the standard error of these estimates.

Table S1: Intercepts and slopes with 95% Confidence Intervals calculated from linear regression between cumulative mortality and exposure time.

Species	Temperature	Salinity	Slope	95% C.I.	Intercept	95% C.I.	R^2
Calanus finmarchicus	0	10	0.5 ± 0.04	0.46-0.54	0.1 ± 0.05	-0.01 - 0.2	0.69
		15	0.08 ± 0.02	0.04 - 0.12	-0.01 ± 0.05	-0.12 - 0.1	0.10
		20-50	0 ± 0	0 - 0.01	-0.01 ± 0.05	-0.05 - 0.03	0.02
		55	0.05 ± 0.02	0.02 - 0.09	0 ± 0.01	-0.1 - 0.08	-
		60	0.18 ± 0.04	0.1 - 0.26	-0.07 ± 0.1	-0.27 - 0.13	0.31
	5	10	0.25 ± 0.02	0.21 - 0.3	0.07 ± 0.05	-0.03 - 0.18	0.53
		15	0.08 ± 0.02	0.03 - 0.12	-0.02 ± 0.05	-0.12 - 0.09	0.10
		20-50	0.01 ± 0.01	0 - 0.02	-0.01 ± 0.01	-0.04 - 0.02	0.02
		55	0.05 ± 0.02	0.01 - 0.09	0.01 ± 0.05	-0.09 - 0.11	0.06
		60	0.27 ± 0.03	0.2 - 0.33	-0.13 ± 0.08	-0.3 - 0.03	0.59
	10	10	0.5 ± 0.04	0.43 - 0.57	0.14 ± 0.05	0.04 - 0.23	0.72
		15	0.15 ± 0.03	0.1 - 0.21	-0.01 ± 0.06	-0.14 - 0.12	0.23
		20-50	0 ± 0	0 - 0	0 ± 0	0 - 0	-
		55	0.12 ± 0.02	0.08 - 0.17	-0.05 ± 0.06	-0.16 - 0.06	0.19
		60	0.3 ± 0.06	0.19 - 0.41	0.13 ± 0.1	-0.08 - 0.34	0.46
Calanus glacialis	0	5	0.18 ± 0.03	0.13 - 0.23	0.31 ± 0.06	0.19 - 0.43	0.31
		10	0.1 ± 0.03	0.05 - 0.16	0.03 ± 0.06	-0.09 - 0.16	0.12
		15	0.01 ± 0.01	-0.01 - 0.03	0.02 ± 0.03	-0.04 - 0.07	0.00
		20	0 ± 0	0 - 0	0 ± 0	0 - 0	-
		55	0.03 ± 0.01	0.01 - 0.04	-0.03 ± 0.02	-0.07 - 0.02	0.05
		60	0.1 ± 0.03	0.05 - 0.15	0.01 ± 0.06	-0.12 - 0.14	0.12
	5	5	0.31 ± 0.03	0.25 - 0.37	0.23 ± 0.05	0.12 - 0.33	0.55
		10	0.08 ± 0.02	0.03 - 0.13	0.02 ± 0.06	-0.1 - 0.13	0.09
		15	0.02 ± 0.01	0 - 0.05	-0.01 ± 0.03	-0.07 - 0.05	0.03
		20-50	0 ± 0	0 - 0	0 ± 0	0 - 0	-
		55	0.07 ± 0.02	0.03 - 0.1	-0.06 ± 0.04	-0.14 - 0.02	0.13
		60	0.16 ± 0.03	0.1 - 0.21	0.01 ± 0.07	-0.12 - 0.14	0.22
	10	5	0.5 ± 0.04	0.43 - 0.57	0.14 ± 0.05	0.04 - 0.23	0.72
		10	0.19 ± 0.03	0.13 - 0.24	0.05 ± 0.07	-0.08 - 0.18	0.29

	15	0.01 ± 0.01	0 - 0.03	-0.01 ± 0.01	-0.04 - 0.02	0.02
20-50		0.01 ± 0.01	0 - 0.03	0.01 ± 0.02	-0.04 - 0.02	-
	55	0.2 ± 0.02	0.16 - 0.25	-0.07 ± 0.06	-0.19 - 0.05	0.37
	60	0.26 ± 0.02	0.22 - 0.31	0.08 ± 0.05	-0.02 - 0.19	0.58

Table S2: Predicted LC_{50} values with 95% Confidence intervals

salinity	Temperature (°C)	Species	Exposure (h)	LC50	95% C.I	p-value
5-33	0	Calanus finmarchicus	24	11.8	10.3-12.9	0
			48	13.4	12.9-14	0.48
			72	13.8	13.2-14.5	0.471
			96	14	13.3-14.7	0.462
		Calanus glacialis	24	7.3	5.6-8.7	0.498
			48	8	6.4-9.2	0
			72	8.8	7.5-9.8	0
			96	9	7.8-10	0.504
	5	Calanus finmarchicus	24	9	8.2-10.1	0.474
			48	10.2	8.1-11.5	0.517
			72	12.5	12-13.2	0.476
			96	13.5	12.6-14.7	0.508
		Calanus glacialis	24	6.9	6.1-7.6	0.49
			48	7.7	7.1-8.6	0.492
			72	8.5	7.8-9.4	0.46
			96	8.5	7.8-9.4	0.46
	10	Calanus finmarchicus	24	12.7	11.8-13.5	0.505
			48	14	13.4-14.7	0.489
			72	14.6	13.9-15.4	0.472
			96	14.6	13.9-15.4	0.472
		Calanus glacialis	24	8.7	7.4-9.7	0.5
			48	9.9	9.1-10.8	0.503
			72	10.4	9.5-11.2	0.498
			96	11.2	10.3-12.2	0
33-60	0	Calanus finmarchicus	24	-	-	-
			48	-	-	-
			72	-	-	-
			96	59.2	56.6-64.2	1
		Calanus glacialis	24	-	-	-
			48	-	-	-
			72	-	-	-
			96	63.6	59.6-70.8	0.535
	5	Calanus finmarchicus	24	-	-	-
			48	-	-	-
			72	61	57.5-68.2	0.5
			96	57	55.6-59	0.511
		Calanus glacialis	24	-	-	-
			48	-	-	-
			72	62.9	59.4-68.5	0.514
			96	58.3	56.4-61.1	0.496
	10	Calanus finmarchicus	24	61.4	58.1-68.5	0.517
			48	61.7	57.8-70.4	0.536
			72	56.3	54.9-58.1	0.498
			96	55	53.8-56.4	0.497
		Calanus glacialis	24	67.1	61.4-78.7	0.515
			48	57.1	55.7-59	0.485
			72	54.6	53.5-55.7	0.483
			96	53.3	52.2-54.3	0.483

Table S3: Model coefficients for 2nd degree polynomial equations

Salinity	Exposure time (h)	Temperature (°C)	Species	a	b	c
<33	24	0	*Calanus finmarchicus*	0.003 ± 0	-0.126 ± 0.009	2.74 ± 0.57
	48			0.002 ± 0	-0.171 ± 0.015	1.503 ± 0.079
	72			0.002 ± 0	-0.205 ± 0.033	2.057 ± 0.151
	96			0.004 ± 0	-0.127 ± 0.009	4.229 ± 0.714
	24	10		0.001 ± 0	-0.212 ± 0.013	1.552 ± 0.079
	48			0.002 ± 0	-0.052 ± 0.003	2.604 ± 0.13
	72			0.004 ± 0	-0.129 ± 0.01	1.075 ± 0.05
	96			0.001 ± 0	-0.202 ± 0.015	1.641 ± 0.082
	24	0	*Calanus glacialis*	0 ± 0	-0.062 ± 0.003	2.556 ± 0.148
	48			0.004 ± 0	-0.024 ± 0.013	1.212 ± 0.053
	72			0.001 ± 0	-0.2 ± 0.015	0.472 ± 0.284
	96			0 ± 0	-0.116 ± 0.024	2.558 ± 0.15
	24	10		0.004 ± 0	-0.04 ± 0.02	2.388 ± 0.53
	48			0.002 ± 0	-0.197 ± 0.014	0.805 ± 0.44
	72			0.001 ± 0	-0.154 ± 0.028	2.384 ± 0.139
	96			0.004 ± 0	-0.067 ± 0.024	3.091 ± 0.625
>33	24	0	*Calanus finmarchicus*	0 ± 0	-0.205 ± 0.014	1.322 ± 0.533
	48			0.002 ± 0	-0.034 ± 0.013	2.612 ± 0.142
	72			0.004 ± 0	-0.142 ± 0.028	0.691 ± 0.293
	96			0.001 ± 0	-0.209 ± 0.017	2.84 ± 0.611
	24	10		0.002 ± 0	-0.045 ± 0.015	2.716 ± 0.167
	48			0.004 ± 0	-0.131 ± 0.021	0.922 ± 0.331
	72			0.001 ± 0	-0.209 ± 0.017	2.661 ± 0.459
	96			0.001 ± 0	-0.079 ± 0.018	2.716 ± 0.167
	24	5		0.002 ± 0	-0.115 ± 0.025	1.613 ± 0.412
	48			0.001 ± 0	-0.101 ± 0.01	2.301 ± 0.538
	72			0.002 ± 0	-0.102 ± 0.024	1.137 ± 0.081
	96			0.002 ± 0	-0.199 ± 0.033	2.076 ± 0.545
	24		*Calanus glacialis*	0.001 ± 0	-0.108 ± 0.01	4.057 ± 0.726
	48			0.003 ± 0	-0.077 ± 0.02	1.226 ± 0.082
	72			0.002 ± 0	-0.213 ± 0.034	1.573 ± 0.44
	96			0.002 ± 0	-0.114 ± 0.01	4.275 ± 0.739
	24	0		0 ± 0	-0.172 ± 0.026	1.332 ± 0.082
	48			0.002 ± 0	0.006 ± 0.016	3.404 ± 0.582
	72			0.002 ± 0	-0.114 ± 0.01	-0.154 ± 0.354
	96			0.001 ± 0	-0.182 ± 0.026	1.348 ± 0.082
	24	10		0.002 ± 0	-0.06 ± 0.023	3.497 ± 0.587
	48			0.002 ± 0	-0.118 ± 0.01	1.177 ± 0.5
	72			0.002 ± 0	-0.177 ± 0.028	1.345 ± 0.079
	96			0.003 ± 0	-0.134 ± 0.026	3.375 ± 0.632

Table S4: Model coefficients for 3rd degree polynomial equations

Salinity	Exposure time (h)	Temperature (°C)	Species	M_{ip}	k	S_{ip}	g3
<33	24	5	*Calanus finmarchicus*	-0.002 ± 0.025	0.005 ± 0.003	26.017 ± 1.9	0 ± 0
	48			-0.002 ± 0.027	0.01 ± 0.005	25.355 ± 1.498	0 ± 0
	72			0 ± 0.021	0.017 ± 0.004	26.007 ± 0.899	0 ± 0
	96			0.056 ± 0.055	0.016 ± 0.011	29.987 ± 4.034	0 ± 0
	24		*Calanus glacialis*	-0.006 ± 0.018	0.018 ± 0.004	22.756 ± 0.588	0 ± 0
	48			0.002 ± 0.022	0.012 ± 0.004	23.609 ± 0.879	0 ± 0
	72			0.008 ± 0.023	0.01 ± 0.003	24.99 ± 1.371	0 ± 0
	96			0.008 ± 0.023	0.01 ± 0.003	24.99 ± 1.371	0 ± 0