Supporting Information

Munch and Salinas 10.1073/pnas.0900300106

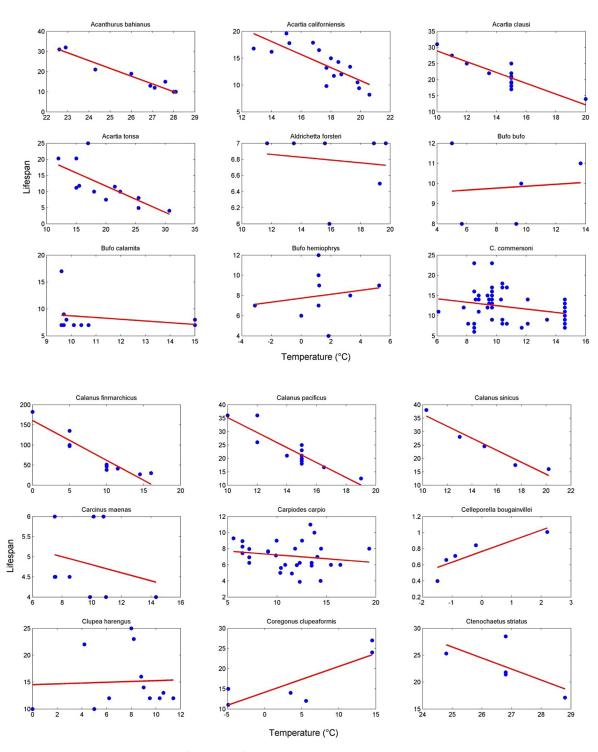


Fig. S1. Temperature-lifespan plots for the 67 wild species. Each data point represents 1 population.

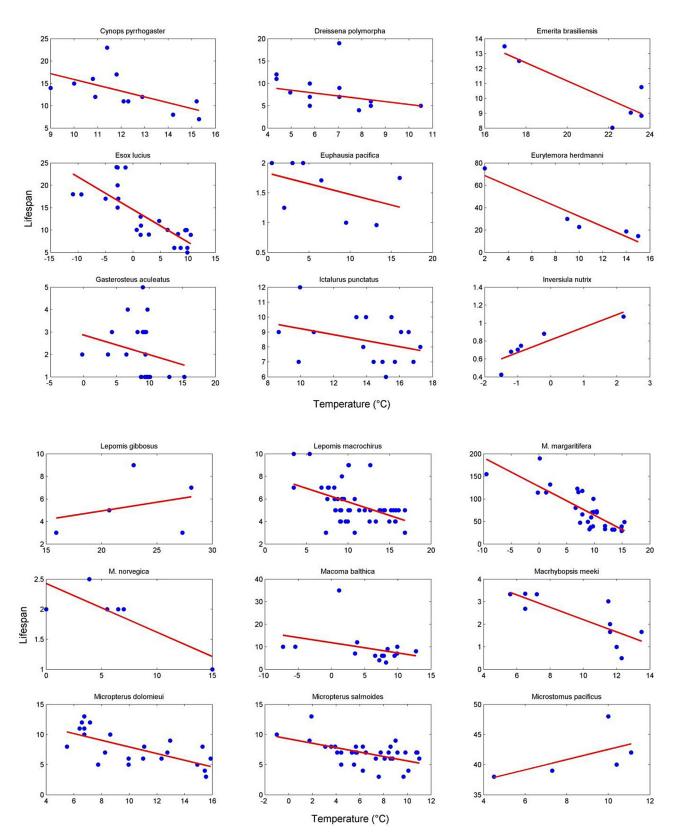


Fig. S1. Continued.

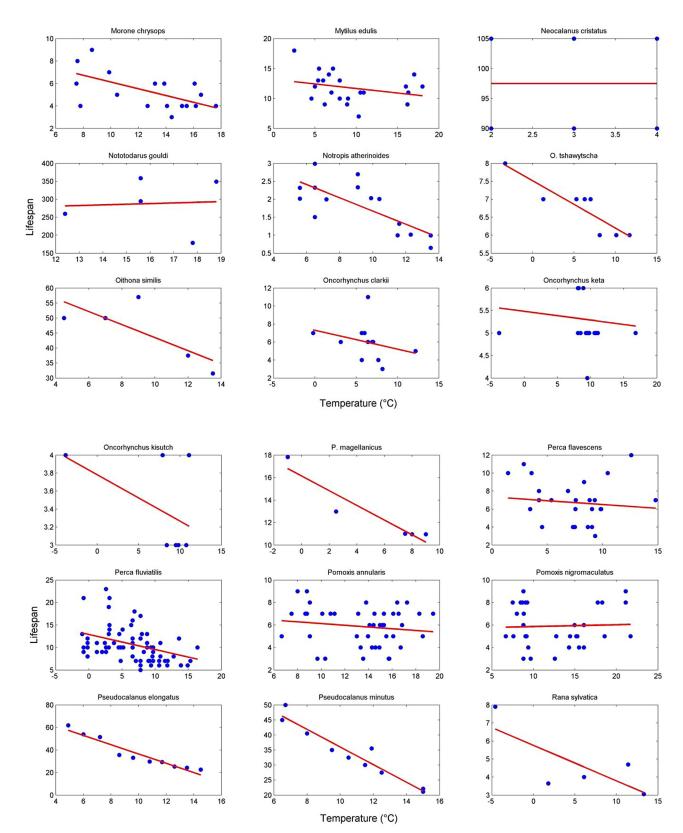


Fig. S1. Continued.

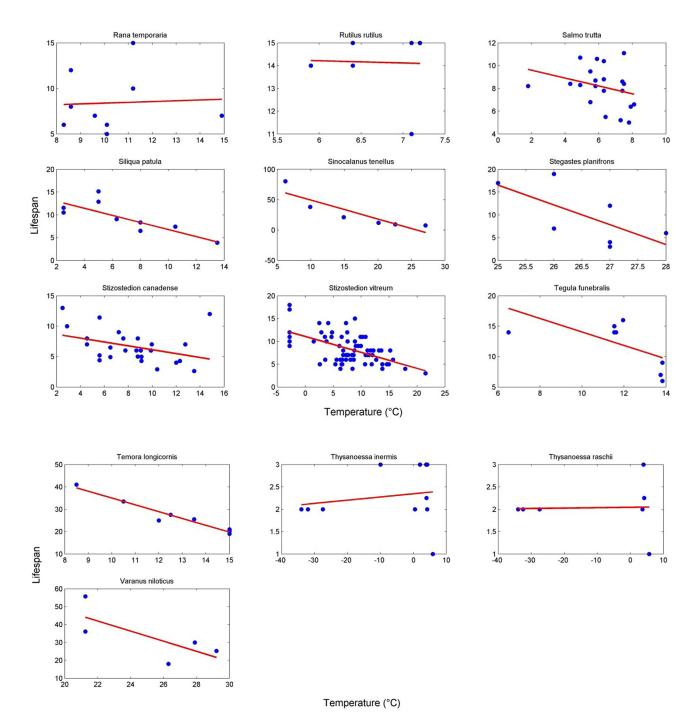


Fig. S1. Continued.

Table S1. Summary of results for all wild species

Species	Slope	Intercept	r ²	Ν	Lifespan measure	Mean temperature, °C	Temperature range	Latitude range
Acanthurus bahianus	1.608	-59.570	0.928	10	max	26.06	5.50	56.00
Acartia californiensis	0.849	-31.295	0.599	16	avg	17.46	7.80	
Acartia clausi	0.611	-21.617	0.824	14	avg	14.11	10.00	
Acartia tonsa	0.701	-25.382	0.675	15	avg	20.10	18.70	
Aldrichetta forsteri	0.141	-3.736	0.018	7	max	16.37	8.00	10.20
Bufo bufo	-0.363	17.197	0.015	5	max	8.67	8.67	19.91
Bufo calamita	0.892	-34.341	0.053	11	max	10.85	5.40	12.67
Bufo hemiophrys	-0.916	40.738	0.029	9	max	1.33	8.38	9.03
Calanus finmarchicus	0.920	-33.766	0.935	10	avg	8.70	16.00	
Calanus pacificus	0.932	-34.522	0.856	13	avg	14.50	9.00	
Calanus sinicus	0.658	-23.300	0.973	5	avg	15.20	9.90	
Carcinus maenas	0.559	-21.364	0.076	9	max	9.68	6.83	18.13
Carpiodes carpio	0.520	-19.291	0.046	30	max	11.24	13.73	14.07
Catostomus commersoni	0.911	-34.795	0.062	53	max	10.72	8.50	9.00
Celleporella bougainvillei	-1.510	63.834	0.630	5	avg	-0.32	3.70	13.42
Clupea harengus	-0.660	29.936	0.014	12	max	7.60	11.40	10068.00
Coregonus clupeaformis	-0.279	14.456	0.712	7	max	3.34	19.40	9.80
Ctenochaetus striatus	1.056	-37.747	0.514	5	max	26.80	4.00	19.00
Cynops pyrrhogaster	1.160	-44.642	0.457	12	max	12.16	6.30	0.27
Dreissena polymorpha	1.783	-72.052	0.122	17	max	6.50	6.13	0.27
Emerita brasiliensis	0.505	-17.598	0.672	6	max	21.18	6.63	11.65
Esox lucius	0.476	-17.586	0.643	24	max	2.17	21.42	26.43
Euphausia pacifica	0.384	-15.492	0.043	8		6.88	15.50	18.78
•	0.384	-31.057	0.130	5	avg	10.00	13.00	10.76
Eurytemora herdmanni					avg			24.00
Gasterosteus aculeatus	1.106	-44.937	0.121	32	max	8.80	15.50	24.00
Ictalurus punctatus	0.486	-17.528	0.105	16	max	13.93	8.58	10.80
Inversiula nutrix	-1.478	62.569	0.645	6	avg	-0.43	3.70	13.42
Lepomis gibbosus	-0.744	30.735	0.101	5	max	22.98	12.18	12.15
Lepomis macrochirus	0.565	-21.413	0.240	52	max	10.75	13.38	12.98
Macoma balthica	0.642	-24.683	0.165	15	max	5.59	20.00	27.58
Macrhybopsis meeki	1.444	-58.522	0.465	10	max	9.83	7.90	9.56
Margaritifera margaritifera Meganyctiphanes	0.680 0.432	-23.866 -17.327	0.599 0.696	29 6	max	8.42 6.32	24.90 15.00	27.34 31.00
norvegica	0.432	-17.327	0.090	O	avg	0.32	13.00	31.00
Micropterus dolomieui	0.779	-29.898	0.448	26	max	10.32	10.38	11.60
Micropterus salmoides	0.724	-28.154	0.235	35	max	6.71	12.00	13.23
Microstomus pacificus	-0.230	13.175	0.366	5	max	8.66	6.60	18.00
Morone chrysops	0.610	-23.127	0.359	18	max	12.49	10.13	10.90
Mytilus edulis	0.326	-10.932	0.062	22	max	9.33	15.50	15.58
Neocalanus cristatus	-0.621	30.645	0.000	6	avg	3.00	2.00	
Nototodarus gouldi	0.825	-27.451	0.000	5	max	16.04	6.40	9.97
Notropis atherinoides	1.091		0.604	15	max	9.25	7.90	9.53
Oithona similis	0.458		0.621	5	avg	9.20	9.00	
Oncorhynchus clarkii	0.773	-30.338	0.120	12	max	6.26	12.38	10.13
Oncorhynchus keta	0.223	-7.521	0.010	26	max	9.05	20.60	24.58
Oncorhynchus kisutch	0.202	-7.145	0.235	8	max	7.89	14.90	16.80
Oncorhynchus tshawytscha	0.202	-4.017	0.793	8	max	5.81	15.00	17.28
Perca flavescens	0.142	-32.371	0.733	29	max	7.43	13.33	14.53
Perca fluviatilis	0.524	-19.455	0.013	75		6.18	17.40	27.12
			0.176	5	max			8.85
Placopecten magellanicus	0.327	-11.092			max	5.20	10.00	
Pomoxis annularis	0.683	-25.916	0.013	43	max	13.49	12.79	12.96
Pomoxis nigromaculatus	-0.509	22.406	0.002	32	max	12.60	15.04	16.96
Pseudocalanus elongatus	0.760	-27.622	0.965	10	avg	9.94	9.60	
Pseudocalanus minutus	0.641	-22.725	0.930	10	avg	10.71	8.50	
Rana sylvatica	0.331	-12.286	0.551	5	avg	5.60	17.90	17.70
Rana temporaria	-1.186	50.667	0.002	10	max	10.12	6.60	12.97
Rutilus rutilus	1.472	-58.381	0.004	7	avg	6.76	1.30	3.98
Salmo trutta	1.033	-40.832	0.104	21	avg	6.22	6.30	11.53
Siliqua patula	0.784	-30.347	0.719	10	avg	6.93	11.00	25.27
Sinocalanus tenellus	0.831	-30.289	0.973	6	avg	16.80	20.90	
Stegastes planifrons	5.629	-215.792	0.379	7	max	26.57	3.00	18.37
Stizostedion canadense	0.859	-33.561	0.181	27	max	8.36	12.29	13.72
Stizostedion vitreum	0.510	-19.009	0.296	70	max	8.00	24.30	29.50
Tegula funebralis	1.226	-47.460	0.372	10	max	12.03	7.33	12.30

Species	Slope	Intercept	r^2	N	Lifespan measure	Mean temperature, °C	Temperature range	Latitude range
Temora longicornis	0.789	-28.770	0.956	11	avg	13.36	6.50	
Thysanoessa inermis	-0.117	5.891	0.007	11	avg	-7.16	39.90	30.52
Thysanoessa raschii	0.099	-3.742	0.009	7	avg	-10.91	39.70	29.42
Varanus niloticus	0.860	-30.020	0.501	5	avg	25.18	7.96	2.18

Slope, intercept, and r^2 values are those obtained from regressing 1/temp(in K) Boltzmann's constant and In(lifespan). N indicates the number of populations. Lifespan measure denotes whether maximum or average lifespan was obtained for that species. Mean temperature is the average of all 30-yr average temperature records from where the populations originate. Temperature and latitude ranges were calculated as $\max_{temp} - \min_{temp}$ and $\max_{lat} - \min_{lat, respectively}$ (some studies reported temperature only).