

Supplementary material

Population dynamics of a high-latitude coral *Alveopora japonica* Eguchi from Jeju Island, off the southern coast of Korea

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Table S1. Results from the Shapiro–Wilk normality test for the two *Alveopora japonica* populations (Gwidock and Shinhung) and the Kruskal–Wallis one-way analysis of variance testing whether the populations (Gwidock and Shinhung) originate from the same distribution

Parameter	Shapiro–Wilk normality test				Kruskal–Wallis test		
	Gwidock ($n = 1547$)		Shinhung ($n = 878$)		Shinhung v. Gwidock		
	W	P	W	P	χ^2	d.f.	P
Maximum radius	0.977	1.25×10^7	0.9781	2.42×10^{12}	38.3728	1	1.63×10^9
Minimum radius	0.9796	5.85×10^7	0.9797	9.05×10^{12}	32.2449	1	1.36×10^8
Height	0.9525	2.49×10^{12}	0.9372	$<2.20 \times 10^{16}$	86.3877	1	$<2.20 \times 10^{16}$
Age	0.9525	2.45×10^{12}	0.9372	$<2.20 \times 10^{16}$	86.3877	1	$<2.20 \times 10^{16}$
Surface area	0.7621	$<2.20 \times 10^{16}$	0.8235	$<2.20 \times 10^{16}$	71.6692	1	$<2.20 \times 10^{16}$
Number of polyps	0.762	$<2.20 \times 10^{16}$	0.8235	$<2.20 \times 10^{16}$	71.6692	1	$<2.20 \times 10^{16}$
Weight	0.7829	$<2.20 \times 10^{16}$	0.7632	$<2.20 \times 10^{16}$	46.1324	1	1.11×10^{11}
Density	0.9701	3.50×10^9	0.3986	$<2.20 \times 10^{16}$	290.5263	1	$<2.20 \times 10^{16}$
log(max. radius)	–	–	–	–	36.3728	1	1.63×10^9
log(min. radius)	–	–	–	–	32.2449	1	1.36×10^8
log(height)	–	–	–	–	86.3877	1	$<2.20 \times 10^{16}$
log(age)	–	–	–	–	86.3877	1	$<2.20 \times 10^{16}$
log(surface area)	–	–	–	–	71.6735	1	$<2.20 \times 10^{16}$
log(number of polyps)	–	–	–	–	71.7464	1	$<2.20 \times 10^{16}$
log(weight)	–	–	–	–	46.1324	1	1.11×10^{11}