Table S3.

A) Post hoc Tukey test for mean Head length between all pair comparisons; Adjp is the adjusted p value. 1=Iquique, 2=Antofagasta, 3=Tumbes, 4=Lota, 5=Lebu, 6=Isla Mocha Punta los Piures, 7= Isla Mocha Faro Viejo, 8= Isla Mocha Caleta Derrumbe, 9= Mehuín, 10=Valdivia, 11=Pucatrihue, 12=Chiloé, 13=Punta Pirámide, 14=Puerto Madryn 15=Comodoro Rivadavia, 16=Punta Arenas.

NORD	Effect	NLOC	_NLOC	Estimate	StdErr	DF	tValue	Probt	Adjustment	Adjp
1	NLOC	1	2	62.8167	15.8861	464	3.95	0.0001	Tukey	0.0086
2	NLOC	1	3	43.3167	15.8861	464	2.73	0.0066	Tukey	0.3168
3	NLOC	1	4	43.9667	15.8861	464	2.77	0.0059	Tukey	0.2917
4	NLOC	1	5	-50.1833	15.8861	464	-3.16	0.0017	Tukey	0.1150
5	NLOC	1	6	-211.8167	15.8861	464	-13.33	0.0000	Tukey	0.0000
6	NLOC	1	7	-270.5833	15.8861	464	-17.03	0.0000	Tukey	0.0000
7	NLOC	1	8	-175.8667	15.8861	464	-11.07	0.0000	Tukey	0.0000
8	NLOC	1	9	-63.4500	15.8861	464	-3.99	0.0001	Tukey	0.0074
9	NLOC	1	10	-298.6000	15.8861	464	-18.80	0.0000	Tukey	0.0000
10	NLOC	1	11	-209.3667	15.8861	464	-13.18	0.0000	Tukey	0.0000
11	NLOC	1	12	-300.3667	15.8861	464	-18.91	0.0000	Tukey	0.0000
12	NLOC	1	13	-195.4167	15.8861	464	-12.30	0.0000	Tukey	0.0000
13	NLOC	1	14	-178.4000	15.8861	464	-11.23	0.0000	Tukey	0.0000
14	NLOC	1	15	-162.6667	15.8861	464	-10.24	0.0000	Tukey	0.0000
15	NLOC	1	16	-289.3833	15.8861	464	-18.22	0.0000	Tukey	0.0000
16	NLOC	2	3	-19.5000	15.8861	464	-1.23	0.2203	Tukey	0.9977
17	NLOC	2	4	-18.8500	15.8861	464	-1.19	0.2360	Tukey	0.9985
18	NLOC	2	5	-113.0000	15.8861	464	-7.11	0.0000	Tukey	0.0000
19	NLOC	2	6	-274.6333	15.8861	464	-17.29	0.0000	Tukey	0.0000
20	NLOC	2	7	-333.4000	15.8861	464	-20.99	0.0000	Tukey	0.0000
21	NLOC	2	8	-238.6833	15.8861	464	-15.02	0.0000	Tukey	0.0000
22	NLOC	2	9	-126.2667	15.8861	464	-7.95	0.0000	Tukey	0.0000
23	NLOC	2	10	-361.4167	15.8861	464	-22.75	0.0000	Tukey	0.0000
24	NLOC	2	11	-272.1833	15.8861	464	-17.13	0.0000	Tukey	0.0000
25	NLOC	2	12	-363.1833	15.8861	464	-22.86	0.0000	Tukey	0.0000
26	NLOC	2	13	-258.2333	15.8861	464	-16.26	0.0000	Tukey	0.0000
27	NLOC	2	14	-241.2167	15.8861	464	-15.18	0.0000	Tukey	0.0000
28	NLOC	2	15	-225.4833	15.8861	464	-14.19	0.0000	Tukey	0.0000
29	NLOC	2	16	-352.2000	15.8861	464	-22.17	0.0000	Tukey	0.0000
30	NLOC	3	4	0.6500	15.8861	464	0.04	0.9674	Tukey	1.0000
31	NLOC	3	5	-93.5000	15.8861	464	-5.89	0.0000	Tukey	0.0000
32	NLOC	3	6	-255.1333	15.8861	464	-16.06	0.0000	Tukey	0.0000
33	NLOC	3	7	-313.9000	15.8861	464	-19.76	0.0000	Tukey	0.0000
34	NLOC	3	8	-219.1833	15.8861	464	-13.80	0.0000	Tukey	0.0000
35	NLOC	3	9	-106.7667	15.8861	464	-6.72	0.0000	Tukey	0.0000
36	NLOC	3	10	-341.9167	15.8861	464	-21.52	0.0000	Tukey	0.0000

37	NLOC	3	11	-252.6833	15.8861	464	-15.91	0.0000	Tukey	0.0000
38	NLOC	3	12	-343.6833	15.8861	464	-21.63	0.0000	Tukey	0.0000
39	NLOC	3	13	-238.7333	15.8861	464	-15.03	0.0000	Tukey	0.0000
40	NLOC	3	14	-221.7167	15.8861	464	-13.96	0.0000	Tukey	0.0000
41	NLOC	3	15	-205.9833	15.8861	464	-12.97	0.0000	Tukey	0.0000
42	NLOC	3	16	-332.7000	15.8861	464	-20.94	0.0000	Tukey	0.0000
43	NLOC	4	5	-94.1500	15.8861	464	-5.93	0.0000	Tukey	0.0000
44	NLOC	4	6	-255.7833	15.8861	464	-16.10	0.0000	Tukey	0.0000
45	NLOC	4	7	-314.5500	15.8861	464	-19.80	0.0000	Tukey	0.0000
46	NLOC	4	8	-219.8333	15.8861	464	-13.84	0.0000	Tukey	0.0000
47	NLOC	4	9	-107.4167	15.8861	464	-6.76	0.0000	Tukey	0.0000
48	NLOC	4	10	-342.5667	15.8861	464	-21.56	0.0000	Tukey	0.0000
49	NLOC	4	11	-253.3333	15.8861	464	-15.95	0.0000	Tukey	0.0000
50	NLOC	4	12	-344.3333	15.8861	464	-21.68	0.0000	Tukey	0.0000
51	NLOC	4	13	-239.3833	15.8861	464	-15.07	0.0000	Tukey	0.0000
52	NLOC	4	14	-222.3667	15.8861	464	-14.00	0.0000	Tukey	0.0000
53	NLOC	4	15	-206.6333	15.8861	464	-13.01	0.0000	Tukey	0.0000
54	NLOC	4	16	-333.3500	15.8861	464	-20.98	0.0000	Tukey	0.0000
55	NLOC	5	6	-161.6333	15.8861	464	-10.17	0.0000	Tukey	0.0000
56	NLOC	5	7	-220.4000	15.8861	464	-13.87	0.0000	Tukey	0.0000
57	NLOC	5	8	-125.6833	15.8861	464	-7.91	0.0000	Tukey	0.0000
58	NLOC	5	9	-13.2667	15.8861	464	-0.84	0.4041	Tukey	1.0000
59	NLOC	5	10	-248.4167	15.8861	464	-15.64	0.0000	Tukey	0.0000
60	NLOC	5	11	-159.1833	15.8861	464	-10.02	0.0000	Tukey	0.0000
61	NLOC	5	12	-250.1833	15.8861	464	-15.75	0.0000	Tukey	0.0000
62	NLOC	5	13	-145.2333	15.8861	464	-9.14	0.0000	Tukey	0.0000
63	NLOC	5	14	-128.2167	15.8861	464	-8.07	0.0000	Tukey	0.0000
64	NLOC	5	15	-112.4833	15.8861	464	-7.08	0.0000	Tukey	0.0000
65	NLOC	5	16	-239.2000	15.8861	464	-15.06	0.0000	Tukey	0.0000
66	NLOC	6	7	-58.7667	15.8861	464	-3.70	0.0002	Tukey	0.0217
67	NLOC	6	8	35.9500	15.8861	464	2.26	0.0241	Tukey	0.6514
68	NLOC	6	9	148.3667	15.8861	464	9.34	0.0000	Tukey	0.0000
69	NLOC	6	10	-86.7833	15.8861	464	-5.46	0.0000	Tukey	0.0000
70	NLOC	6	11	2.4500	15.8861	464	0.15	0.8775	Tukey	1.0000
71	NLOC	6	12	-88.5500	15.8861	464	-5.57	0.0000	Tukey	0.0000
72	NLOC	6	13	16.4000	15.8861	464	1.03	0.3024	Tukey	0.9997
73	NLOC	6	14	33.4167	15.8861	464	2.10	0.0360	Tukey	0.7621
74	NLOC	6	15	49.1500	15.8861	464	3.09	0.0021	Tukey	0.1365
75	NLOC	6	16	-77.5667	15.8861	464	-4.88	0.0000	Tukey	0.0002
76	NLOC	7	8	94.7167	15.8861	464	5.96	0.0000	Tukey	0.0000
77	NLOC	7	9	207.1333	15.8861	464	13.04	0.0000	Tukey	0.0000
78	NLOC	7	10	-28.0167	15.8861	464	-1.76	0.0785	Tukey	0.9278
79	NLOC	7	11	61.2167	15.8861	464	3.85	0.0001	Tukey	0.0125

80	NLOC	7	12	-29.7833	15.8861	464	-1.87	0.0614	Tukey	0.8861
81	NLOC	7	13	75.1667	15.8861	464	4.73	0.0000	Tukey	0.0003
82	NLOC	7	14	92.1833	15.8861	464	5.80	0.0000	Tukey	0.0000
83	NLOC	7	15	107.9167	15.8861	464	6.79	0.0000	Tukey	0.0000
84	NLOC	7	16	-18.8000	15.8861	464	-1.18	0.2372	Tukey	0.9985
85	NLOC	8	9	112.4167	15.8861	464	7.08	0.0000	Tukey	0.0000
86	NLOC	8	10	-122.7333	15.8861	464	-7.73	0.0000	Tukey	0.0000
87	NLOC	8	11	-33.5000	15.8861	464	-2.11	0.0355	Tukey	0.7587
88	NLOC	8	12	-124.5000	15.8861	464	-7.84	0.0000	Tukey	0.0000
89	NLOC	8	13	-19.5500	15.8861	464	-1.23	0.2191	Tukey	0.9977
90	NLOC	8	14	-2.5333	15.8861	464	-0.16	0.8734	Tukey	1.0000
91	NLOC	8	15	13.2000	15.8861	464	0.83	0.4064	Tukey	1.0000
92	NLOC	8	16	-113.5167	15.8861	464	-7.15	0.0000	Tukey	0.0000
93	NLOC	9	10	-235.1500	15.8861	464	-14.80	0.0000	Tukey	0.0000
94	NLOC	9	11	-145.9167	15.8861	464	-9.19	0.0000	Tukey	0.0000
95	NLOC	9	12	-236.9167	15.8861	464	-14.91	0.0000	Tukey	0.0000
96	NLOC	9	13	-131.9667	15.8861	464	-8.31	0.0000	Tukey	0.0000
97	NLOC	9	14	-114.9500	15.8861	464	-7.24	0.0000	Tukey	0.0000
98	NLOC	9	15	-99.2167	15.8861	464	-6.25	0.0000	Tukey	0.0000
99	NLOC	9	16	-225.9333	15.8861	464	-14.22	0.0000	Tukey	0.0000
100	NLOC	10	11	89.2333	15.8861	464	5.62	0.0000	Tukey	0.0000
101	NLOC	10	12	-1.7667	15.8861	464	-0.11	0.9115	Tukey	1.0000
102	NLOC	10	13	103.1833	15.8861	464	6.50	0.0000	Tukey	0.0000
103	NLOC	10	14	120.2000	15.8861	464	7.57	0.0000	Tukey	0.0000
104	NLOC	10	15	135.9333	15.8861	464	8.56	0.0000	Tukey	0.0000
105	NLOC	10	16	9.2167	15.8861	464	0.58	0.5621	Tukey	1.0000
106	NLOC	11	12	-91.0000	15.8861	464	-5.73	0.0000	Tukey	0.0000
107	NLOC	11	13	13.9500	15.8861	464	0.88	0.3803	Tukey	1.0000
108	NLOC	11	14	30.9667	15.8861	464	1.95	0.0519	Tukey	0.8512
109	NLOC	11	15	46.7000	15.8861	464	2.94	0.0034	Tukey	0.1999
110	NLOC	11	16	-80.0167	15.8861	464	-5.04	0.0000	Tukey	0.0001
111	NLOC	12	13	104.9500	15.8861	464	6.61	0.0000	Tukey	0.0000
112	NLOC	12	14	121.9667	15.8861	464	7.68	0.0000	Tukey	0.0000
113	NLOC	12	15	137.7000	15.8861	464	8.67	0.0000	Tukey	0.0000
114	NLOC	12	16	10.9833	15.8861	464	0.69	0.4897	Tukey	1.0000
115	NLOC	13	14	17.0167	15.8861	464	1.07	0.2847	Tukey	0.9995
116	NLOC	13	15	32.7500	15.8861	464	2.06	0.0398	Tukey	0.7884
117	NLOC	13	16	-93.9667	15.8861	464	-5.92	0.0000	Tukey	0.0000
118	NLOC	14	15	15.7333	15.8861	464	0.99	0.3225	Tukey	0.9998
119	NLOC	14	16	-110.9833	15.8861	464	-6.99	0.0000	Tukey	0.0000
120	NLOC	15	16	-126.7167	15.8861	464	-7.98	0.0000	Tukey	0.0000

B) Matrix for pairwise comparisons of the Adjusted P value of mean Head length. Sample codes in Table 1

Locality	IQQ	ANT	TUMB	LOTA	LEBU	IMLP	IMFV	IMCD	MEH	VALD	PUCA	CHIL	PIR	PM	CR	PARE
IQQ	1	0.0086	0.3168	0.2917	0.1150	0.0000	0.0000	0.0000	0.0074	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ANT	0.0086	1	0.9977	0.9985	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
TUMB	0.3168	0.9977	1	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LOTA	0.2917	0.9985	1.0000	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LEBU	0.1150	0.0000	0.0000	0.0000	1	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IMLP	0.0000	0.0000	0.0000	0.0000	0.0000	1	0.0217	0.6514	0.0000	0.0000	1.0000	0.0000	0.9997	0.7621	0.1365	0.0002
IMFV	0.0000	0.0000	0.0000	0.0000	0.0000	0.0217	1	0.0000	0.0000	0.9278	0.0125	0.8861	0.0003	0.0000	0.0000	0.9985
IMCD	0.0000	0.0000	0.0000	0.0000	0.0000	0.6514	0.0000	1	0.0000	0.0000	0.7587	0.0000	0.9977	1.0000	1.0000	0.0000
MEH	0.0074	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
VALD	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.9278	0.0000	0.0000	1	0.0000	1.0000	0.0000	0.0000	0.0000	1.0000
PUCA	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0125	0.7587	0.0000	0.0000	1	0.0000	1.0000	0.8512	0.1999	0.0001
CHIL	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.8861	0.0000	0.0000	1.0000	0.0000	1	0.0000	0.0000	0.0000	1.0000
PIR	0.0000	0.0000	0.0000	0.0000	0.0000	0.9997	0.0003	0.9977	0.0000	0.0000	1.0000	0.0000	1	0.9995	0.7884	0.0000
PM	0.0000	0.0000	0.0000	0.0000	0.0000	0.7621	0.0000	1.0000	0.0000	0.0000	0.8512	0.0000	0.9995	1	0.9998	0.0000
CR	0.0000	0.0000	0.0000	0.0000	0.0000	0.1365	0.0000	1.0000	0.0000	0.0000	0.1999	0.0000	0.7884	0.9998	1	0.0000
PARE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	0.9985	0.0000	0.0000	1.0000	0.0001	1.0000	0.0000	0.0000	0.0000	1