Supporting Information

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SI Text

Accession numbers of the 581 sequences of control region (D-Loop) (*, sequences kept for the analyses):

F213520*-AF213522*, AF213526*, AF213541*, AF213542*, AF213554*, AF213619*-AF213621*, AF213623*, AF213624*, AF213626*, AF298907*-AF298928*, AF298930*-AF298937*, AF298942*-AF298957*, AF298959*-AF298961*, AF298964*-AF298967*, AF298969*-AF298975*, AF298977*-AF298979*, AF298982*, AF298984*, AF298985*, AF400702*, AF400706*, AF400707*, AF400710*, AF400726*, AF400727*, AF400729*-AF400732*, AF400734*, AF400735*, AF400737*, AJ291404*, AJ291409*, AJ291410*, AJ291412*, AJ295929*, AJ407078-AJ407143, AJ489716, AJ492025-AJ492142, AJ492143*-AJ492145*, AJ506160*, AY226786*, AY301960*-AY301963*, AY301964-AY301966, AY301973, AY301974, AY338979*-AY338981*, AY338982-AY338986, AY339003-AY339009, AY339027*-AY339029*, AY339033*-AY339035*, AY339037*-AY339039*, AY339042*-AY339045*, AY339050*-AY339053*, AY574581*-AY574583*, AY574585, AY574587*, AY574589, AY574591, AY574604-AY574608, AY574610*, AY574611, AY574612, AY574614, AY574615, AY574618, AY574619, AY574628, AY574633, AY615431-AY615445, AY615462-AY615475, AY615476*-AY615478*, AY615479-AY615496, AY615497*-AY615499*, AY629408*, AY629411*, AY663759*, AY663761*-AY663767*, AY663781*-AY663783*, AY682486*, AY682487*, AY682501*-AY682506*, AY682508*, AY740289*, AY740320*, AY740328*-AY740331*, AY913939*, AY913940*, AY929939*, AY929940*, AY929956*, AY929961, AY929962, AY929964*, AY929972, AY929974, AY929975*, AY929978, AY929980, AY930020, AY930021, AY930023, AY930024*, AY930025*, AY930039*, AY930040*, DQ054907*, U01107*, U01109*, U01111, U01113*-U01116*, U01927*-U01931*, U01933*-U01935*, U01938*-U01944*, U01951*-U01954*, U12547*-U12549, U12551*, U13597*, U13600*-U13607*, U38808, U38984, U38985*, U38986-U38995, U50347*-U50349*, U90760*-U90766*, U90768*-U90781*, X58151*, X58152*, X90593*-X90595*, X90596-X90603, X90604*-X90609*, X90610, X90626*, Z21750*, Z97410-Z97418, Z97420-Z97438, Z97461-Z97463, Z97465

Accession numbers of the 134 sequences of the NADH-2:

AF305246, AF305249, AF305250, AF305252, AF305255-AF305261, AF305266-AF305268, AF305276, AF305281-AF305283, AF305287-AF305291, AF305297, AF305298, AF305304, AF305310-AF305314, AF305316, AF305318, AF305321, AF305323, AF317240, AF317265, AF317266, AF317268, AF317272, AF398214-AF398216, AF398218, AF398220-AF398225, AF398227, AF398229, AF398230, AF398232, AY337767, AY337769, AY337770, AY337774, AY337778, AY337779, AY337781-AY337783, AY337785-AY337787, AY337790, AY337795, AY663716, AY663717-AY663722, AY663736, AY663737, AY682518-AY682524, AY682538-AY682542, AY682544, AY682546, AY740343, AY740370, AY740379-AY740381, AY930048, AY930061, AY930066-AY930071, AY930085, AY930087, AY930088, AY930091, AY930093, AY930100, AY930107, DQ055006, DQ055010, DQ055018, DQ055041, DQ093109, DQ093110, DQ093113-DQ093115, U07239-U07242, U07247, U07248, U07254, U07257, U07260-U07263, U07267, U07270.

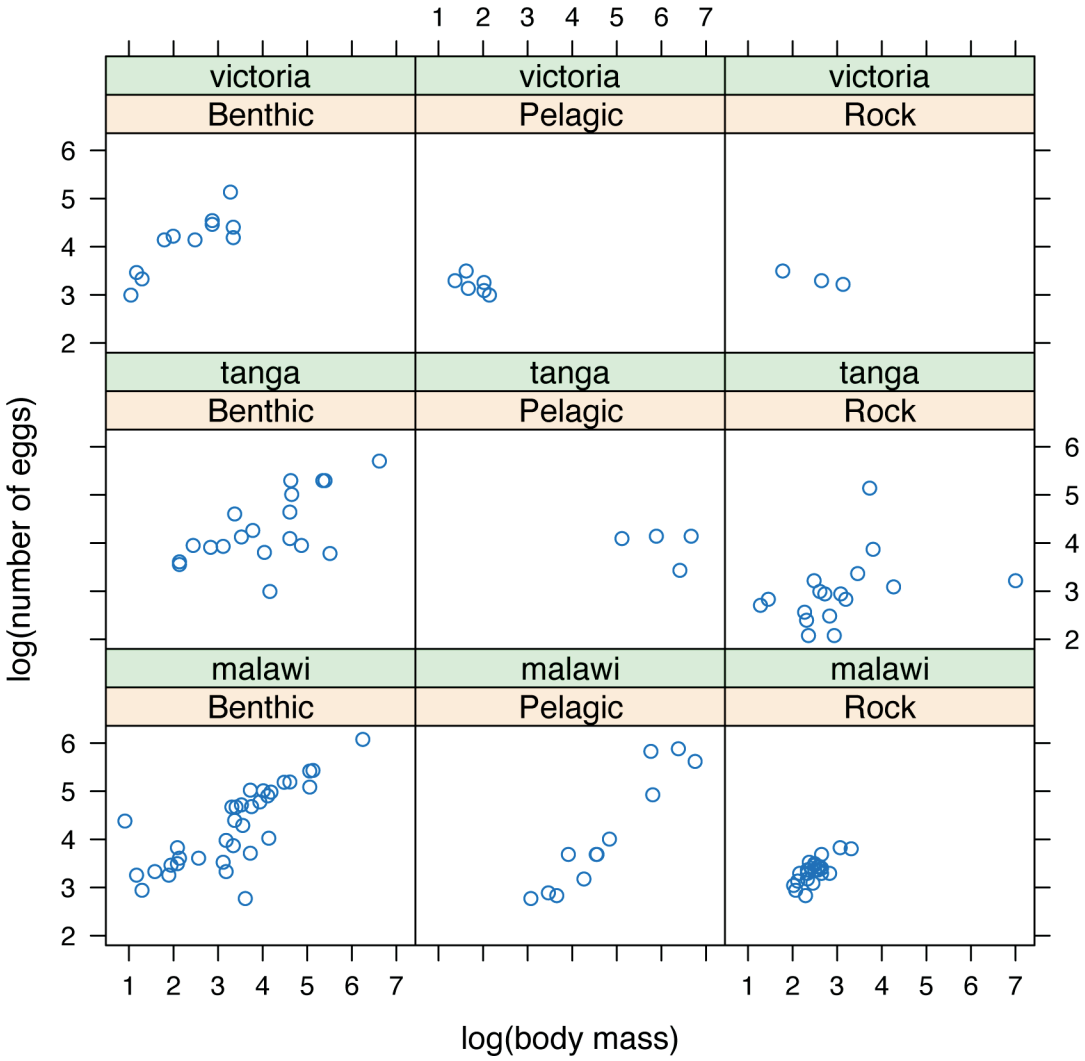

Fig. S1. Log-transformed relationships between batch fecundity (number of eggs) and body mass for all combinations of habitat and lake.

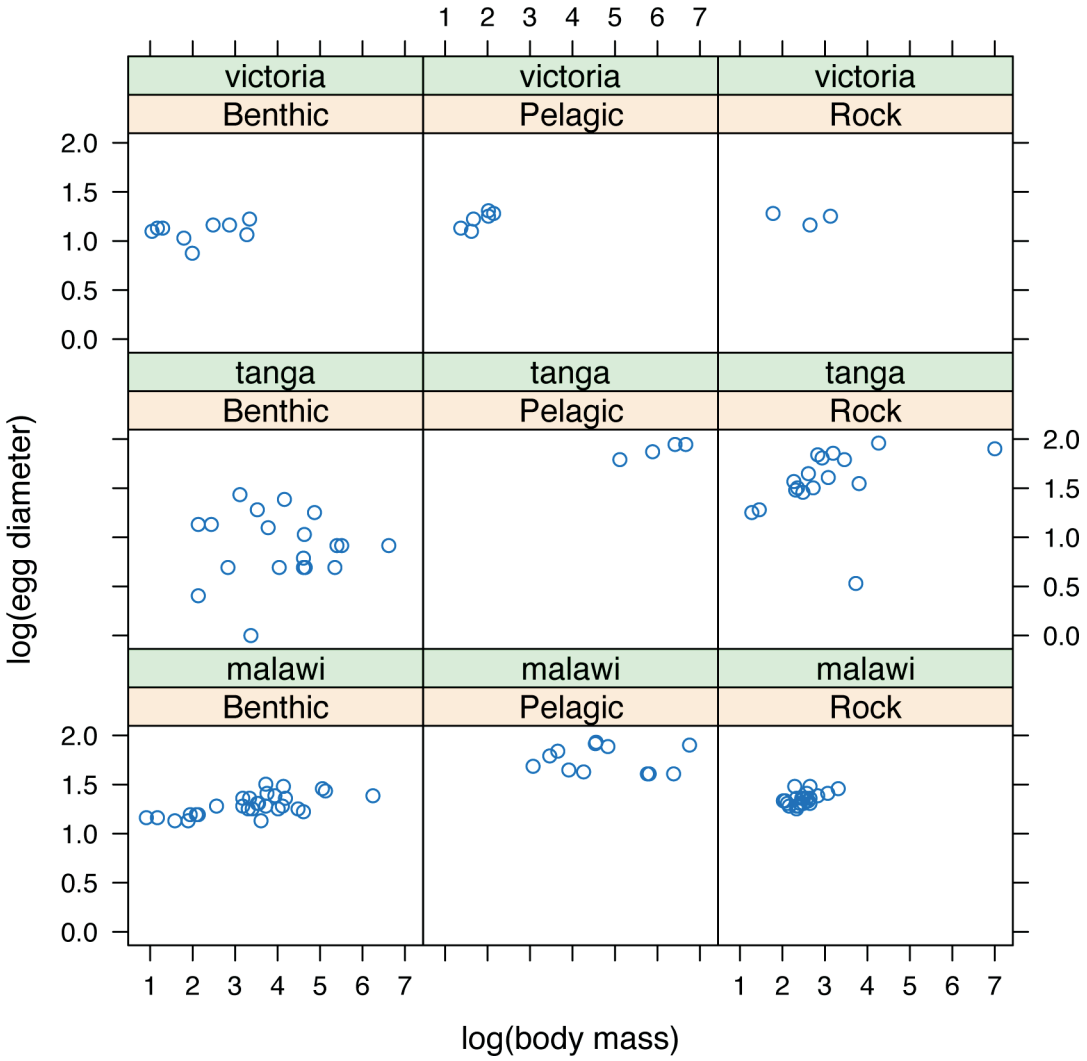

Fig. S2. Log-transformed relationships between egg diameter and body mass for all combinations of habitat and lake.

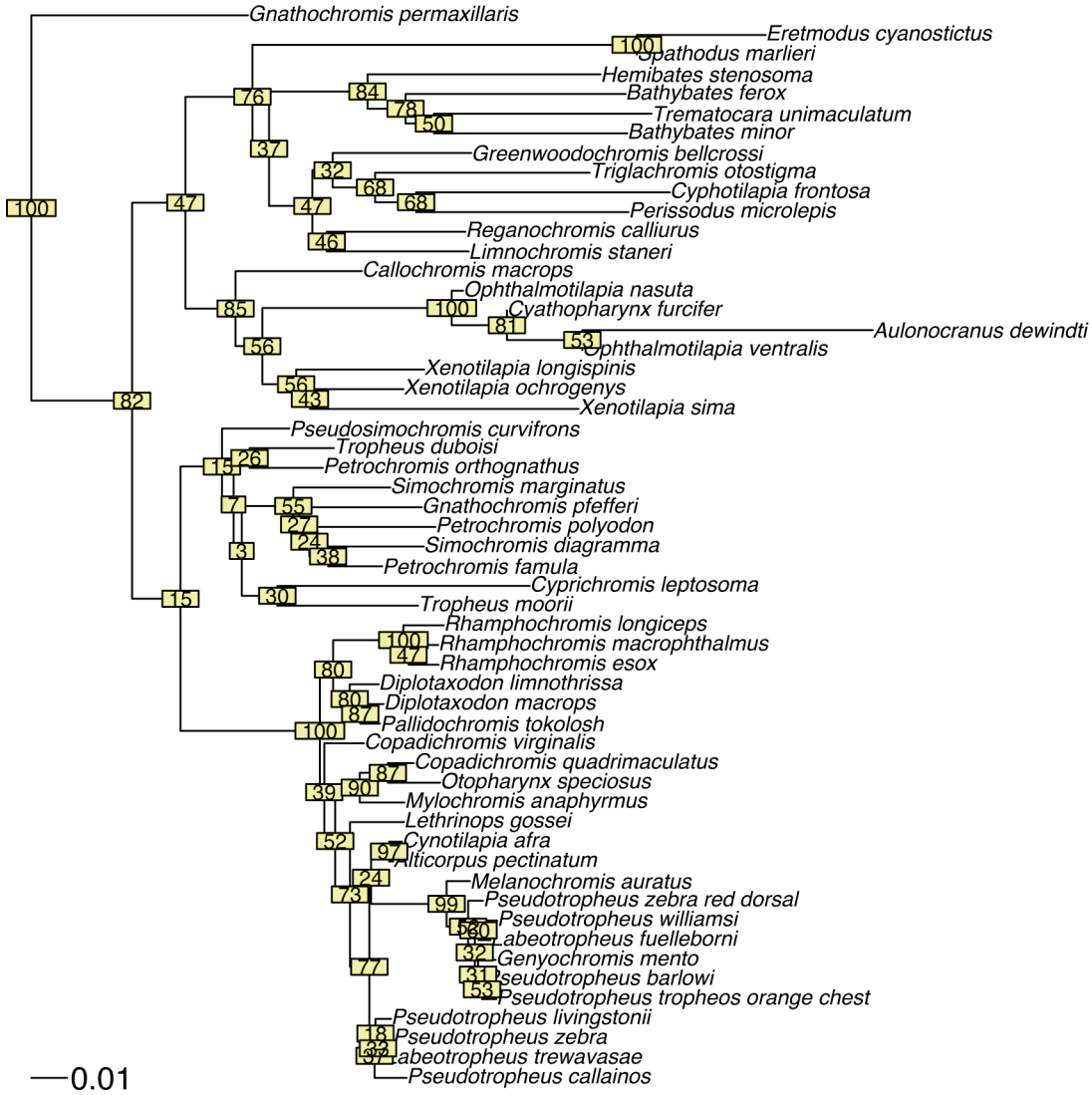

Fig. S3. Phylogenetic relationships among 55 species of African cichlids estimated by NJ from control region sequences. Values at node are bootstrap percentages (100 repetitions).

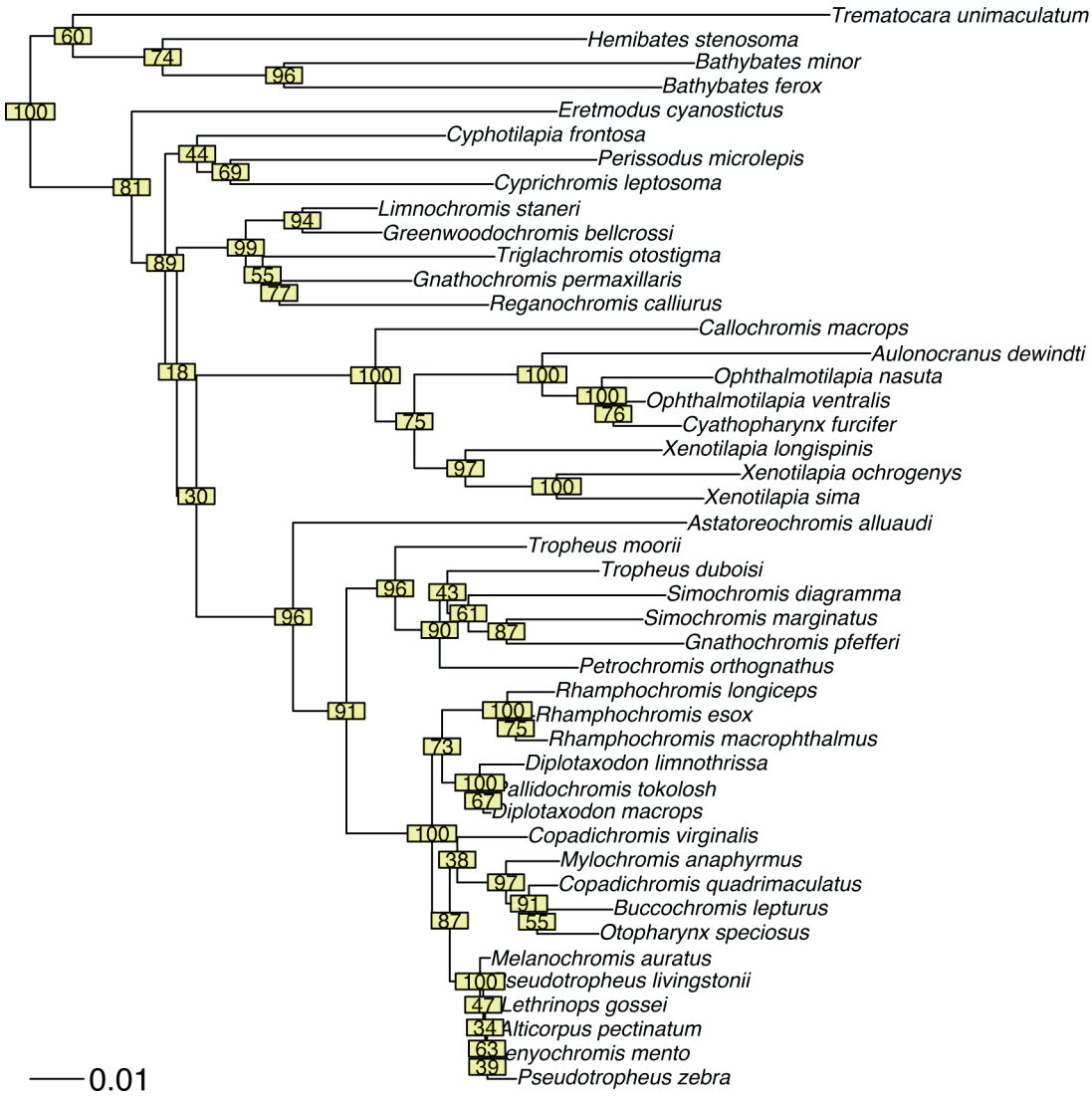

Fig. S4. Phylogenetic relationships among 45 species of African cichlids estimated by NJ from NADH-2 sequences. Values at node are bootstrap percentages (100 repetitions).

4. Thompson AB, Allison EH, Ngatunga BP (1996) Distribution and breeding biology of offshore cichlids in Lake Malawi/Niassa. *Environ Biol Fish* 47:235–254.
6. Duponchelle F, Ribbink AJ (2000) *Fish Ecology Report. SADC/GEF Lake Malawi/Nyasa Biodiversity Conservation Project, Final Report* (Southern African Development Conference/Global Environment Facility, Salima, Malawi) available online at http://malawicichlids.com/mw14001.htm#DR00.
10. Thompson AB, Allison EH, Ngatunga BP, Bulirani A (1995) Fish growth and breeding biology. *The Fishery Potential and Productivity of the Pelagic Zone of Lake Malawi/Niassa*, ed Menz A (Natural Resources Institute, Chatham, UK), pp 279–306.
11. Turner GF, Robinson RL, Ngatunga BP, Shaw PW, Carvalho GR (2001) Pelagic fishes of lake Malawi/Nyasa. *Cichlid Research State of the Art*, ed Coleman RM. *J Aquariculture Aquat Sci* Special issue 9:287–302.
12. Coulter GW (1991) The benthic fish community. *Lake Tanganyika and Its Life*, ed Coulter GW (British Museum of Natural History/Oxford Univ Press, London), pp 139–199.
13. Balon EK (1991) Probable evolution of the coelacanth's reproductive style: Lecithotrophy and orally feeding embryos in cichlid fishes and in *Latimeria chalumnae*. *Environ Biol Fish* 32:249–265.
14. Nagoshi M, Yanagisawa Y (1997) Parental care patterns and growth and survival of dependent offspring in cichlids. *Fish Communities in Lake Tanganyika*, eds Kawanabe H, Hori M, Nagoshi M (Kyoto Univ Press, Kyoto), pp 177–192.
15. Kuwamura T (1986) Parental care and mating systems of cichlid fishes in Lake Tanganyika: A preliminary field survey. *J Ethol* 4:129–146.
16. Yanagisawa Y, Sato T (1990) Active browsing by mouthbrooding females of *Tropheus duboisi* and *Tropheus moorii* (Cichlidae) to feed the young and/or themselves. *Environ Biol Fish* 27:43–50.
17. Kuwamura T, Nagoshi M, Sato T (1989) Female-to-male shift of mouthbrooding in a cichlid fish, *Tanganicodus irsacae*, with notes on breeding habits of two related species in Lake Tanganyika. *Environ Biol Fish* 24:187–198.
18. Konings A (1988) The open water column. *Tanganyika Cichlids*, ed Konings A (Cichlid, Zevenhuizen, The Netherlands).
19. Konings A (1998) The open water. *Tanganyika Cichlids in Their Natural Habitat*, ed Konings A (Cichlid, Zevenhuizen, The Netherlands).
20. Witte F, van Oijen MJP (1990) Taxonomy, ecology and fishery of Lake Victoria haplochromine trophic groups. *Zool Verh* 262:1–47.
21. Goldschmidt T, Goudswaard K (1989) Reproductive strategies in haplochromines (Pisces, Cichlidae) from Lake Victoria. *An Ecological and Morphological Field Study on the Haplochromine Cichlid Fishes (Pisces, Cichlidae) of Lake Victoria*. PhD thesis, ed Goldschmidt T. (Rijksuniversiteit Leiden, Leiden, The Netherlands), pp 93–119.
22. Goldschmidt T, Witte F (1990) Reproductive strategies of zooplanktivorous haplochromine cichlids (Pisces) from Lake Victoria before the Nile perch boom. *Oikos* 58:356–368.
23. Witte F, *et al.* (1992) The destruction of an endemic species flock: Quantitative data on the decline of the haplochromine cichlids of Lake Victoria. *Environ Biol Fish* 34:1–28.
24. Witte-Maas ELM, Witte F (1985) *Haplochromis nyererei, a New Cichlid Fish from Lake Victoria Named in Honour of Mwalimu Julius Nyerere, President of Tanzania*. (Brill, Leiden, The Netherlands), pp 1–13.
25. Fishbase. www.fishbase.org
26. Milton DA, *et al.* (1990) Reproductive biology of *Spratelloides delicatulus, S. gracilis* and *Stolephorus heterolobus* from Solomon Islands and Maldives. *Tuna Baitfish in the Indo-Pacific Region: Proceedings of a Workshop*, eds Blaber SJM, Copland JW (ACIAR Proceedings, Australian Centre for International Agricultural Research, Canberra, Honiara, Solomon Islands), Vol 30, pp 89–98.
27. Luther G (1990) Biology of whitebait anchovies in Indians waters. *Tuna Baitfish in the Indo-Pacific Region: Proceedings of a Workshop*, eds Blaber SJM, Copland JW (ACIAR Proceedings, Australian Centre for International Agricultural Research, Canberra, Honiara, Solomon Islands), Vol 30, pp 75–82.
28. Dalzell, P (1990) Biology and population dynamics of tuna baitfish in Papua New Guinea. *Tuna Baitfish in the Indo-Pacific Region: Proceedings of a Workshop*, eds Blaber SJM, Copland JW (ACIAR Proceedings, Australian Centre for International Agricultural Research, Canberra, Honiara, Solomon Islands), Vol 30, pp 100–113.
29. Conand F (1988) Biologie et écologie des poissons pélagiques du lagon de Nouvelle-Calédonie utilisables comme appât thonier. *ORSTOM, Collection Études et Thèses* (ORSTOM, Paris), pp 239.
30. Hallier JP (1990) Biology of tuna baitfish of Seychelles. *Tuna Baitfish in the Indo-Pacific Region: Proceedings of a Workshop*, eds Blaber SJM, Copland JW (ACIAR Proceedings, Australian Centre for International Agricultural Research, Canberra, Honiara, Solomon Islands), Vol 30, pp 60–69.
31. Milton DA, Blaber SJ, Rawlinson NJ (1994) Reproductive biology and egg production of three species of Clupeidae from Kiribati, Tropical Central Pacific. *Fish Bull* 92:102–121.
32. Jayabalan N, Thangaraja M (1987) Laboratory reared eggs and prolarval stages of silverbelly *Leiognathus* sp. *Environ Ecol* 5:419–421.
33. Coulter GW (1991) Pelagic fish. *Lake Tanganyika and Its Life*, ed Coulter GW (British Museum of Natural History/Oxford Univ Press, London), pp 111–138.
34. Kinoshita I (1997) Early life histories of pelagic fishes. *Fish Communities in Lake Tanganyika*, eds Kawanabe H, Hori M, Nagoshi M (Kyoto Univ Press, Kyoto), pp 259–273.
35. Wanink JH, Goudswaard PC (1994) Effects of Nile Perch (*Lates niloticus*) introduction into Lake Victoria, East Africa, on the diet of pied Kindfishers (*Ceryle rudis*). *Hydrobiologia* 279/280:367–376.
36. Wanink JH (1998) *The Pelagic Cyprinid Rastrineobola argentea as a Crucial Link in the Disrupted Ecosystem of Lake Victoria: Dwarfs and Giants*. PhD thesis (Leiden University, Leiden, The Netherlands).
37. Marshall B (1993) Biology of the African clupeid *Limnothrissa miodon* with reference to its small size in artificial lakes. *Rev Fish Biol Fish* 3:17–38.
38. Thompson AB (1996) Early life history of *Engraulicypris sardella* (Cyprinidae) in Lake Malawi. *J Plankton Res* 18:1349–1368.

Table S1. Some reproductive characteristics of Lake Malawi mouthbrooding haplochromine cichlids

Species	Habitat	*N*	Mean body mass, g	Mean batch fecundity	Relative fecundity (kg^{-1})	*n*	Oocyte diameter, mm	Ref
Copadichromis quadrimaculatus	Pelagic	19	60.3	40	663	8	5.2	6
Diplotaxodon apogon	Pelagic	64	25.2	16	635	22	5.4	6
D. argenteus	Pelagic	10	112.5	40	356	3	6.9	6
D. "big eye"	Pelagic	17	69.0	42	452	17	5.1	10,4
D. limnothrissa	Pelagic	144	37.6	17	495	21	6.3	6
D. macrops	Pelagic	212	36.4	18	493	46	6.0	6
Pallidochromis tokolosh	Pelagic	28	81.2	40	602	3	6.8	6
*Rhamphochromis longiceps**	Pelagic	70	173.0	50	288	70	6.6	10,4
*R. woodi**	Pelagic	28	522.0	241	461	18	6.7	10,4
R. macrophthalmus	Pelagic	1	934.0	522	559		5.0	10,B
R. "grey"	Pelagic	5	323.0	134	416		5.0	11,B
R. esox	Pelagic	8	573.0	348	608		5.0	11,B
Means					**502 ± 33**		**5.8 ± 0.23**	
Alticorpus "geoffreyi"	Benthic	60	67.0	146	2179	26	3.9	6
A. macrocleithrum	Benthic	66	41.5	152	3663	24	3.6	6
A. mentale	Benthic	99	177.2	229	1292	31	4.2	6
A. pectinatum	Benthic	22	33.1	112	3384	3	3.7	6
Aulonocara "blue orange"	Benthic	27	5	28	5600	16	3.1	6
Au. "*minutus*"	Benthic	33	2.2	16	7273	29	3.1	6
Au. "cf. macrochir"	Benthic	4	36.8	80	2174	8	3.2	6
Au. "rostratum deep"	Benthic	8	33.5	81	2418	–		6
Buccochromis lepturus	Benthic	7	452.1	436	964	4	4.0	6
B. nototaenia	Benthic	7	89.5	179	2000	3	3.5	6
Copadichromis virginalis	Benthic	353	21.7	28	1290	76	3.9	6
Lethrinops argenteus	Benthic	196	56.1	119	2121	28	4.0	6
L. "deep water albus"	Benthic	15	29.6	107	3615	3	3.5	6
L. "dw altus"	Benthic	71	9.6	37	3854	34	3.3	6
L. gossei	Benthic	421	52.6	108	2053	190	4.1	6
L. longimanus	Benthic	6	40.3	73	1811	4	3.7	6
L. macrochir	Benthic	4	34.7	107	3084	2	3.5	6
L. "minutus"	Benthic	11	3.8	19	5000	-		6
L. "oliveri"	Benthic	98	9.3	46	4946	45	3.3	6
L. polli	Benthic	37	13.2	37	2803	18	3.6	6
Mylochromis anaphyrmus	Benthic	89	62.7	150	2392	21	3.5	6
Nyassachromis "argyrosoma"	Benthic	83	4.0	33	4925	16	3.3	6
Otopharynx "productus"	Benthic	5	14.8	34	2297	–		6
O. speciosus	Benthic	4	179.5	162	903	–		6
Placidochromis "long"	Benthic	11	5.7	26	4561	10	3.1	6
Pl. "*platyrhynchos*"	Benthic	65	20.5	53.5	2610	24	3.6	6
Pseudotropheus livingstonii	Benthic	9	3.9	26	6667	7	3.2	6
Sciaenochromis alhi	Benthic	11	23.5	48	2043	3	3.9	6
Sc. benthicola	Benthic	19	43.7	56	1281	13	4.4	6
Stigmatochromis "guttatus"	Benthic	9	33.3	41	1231	4	4.5	6
Taeniolethrinops furcicauda	Benthic	6	100.1	180	1798	3	3.4	6
T. praeorbitalis	Benthic	5	156.8	226	1441	3	4.3	6
Trematocranus brevirostris	Benthic	37	7.1	32	4507	12	3.3	6
Tr. placodon	Benthic	10	67.0	135	2015	5	3.6	6
Means					**2947 ± 282**		**3.6 ± 0.07**	
Cynotilapia afra	Rocky	117	7.4	21	2838	49	3.8	A
Genyochromis mento	Rocky	10	13.1	30	2290	9	3.7	A
Labeotropheus fuelleborni	Rocky	37	16.5	27	1636	9	4.4	A
L. trewavasae	Rocky	6	15.0	27	1800	3	4.0	A
Melanochromis auratus	Rocky	7	8.4	24	2857	2	3.5	A
M. vermivorus	Rocky	22	7.3	19	2603	7	3.8	A
Petrotilapia "fuscous"	Rocky	12	24.5	46	1878	3	4.1	A
P. nigra	Rocky	4	31.5	45	1429	2	4.3	A
Pseudotropheus "aggressive blue"	Rocky	10	13.1	29	2214	4	4.1	A
Ps. "ag. grey head"	Rocky	7	8.0	23	2875	6	3.7	A
Ps. aurora	Rocky	37	10.8	30	2778	18	3.7	A
Ps. barlowi	Rocky	22	11.0	34	3091	10	3.6	A
Ps. callainos	Rocky	31	10.0	17	1700	17	4.4	A
Ps. heteropictus	Rocky	7	9.7	29	2990	4	3.6	A
Ps. tropheops "blue"	Rocky	6	13.6	32	2353	4	3.7	A
Ps. tr. "lilac"	Rocky	9	14.9	31	2081	5	3.8	A
Ps. tr. "orange chest"	Rocky	45	14.0	31	2214	16	3.9	A
Ps. tr. "red cheek"	Rocky	14	13.2	22	1667	10	3.9	A
Ps. williamsi	Rocky	17	15.3	40	2614	10	3.9	A
Ps. zebra "black dorsal"	Rocky	18	13.5	33	2444	6	3.9	A
Ps. zebra "red dorsal"	Rocky	388	9.3	27	2903	143	3.6	A
Ps. zebra "yellow throat"	Rocky	18	12.9	29	2248	6	3.9	A
Ps. zebra	Rocky	148	10.7	27	2523	54	3.9	A
Means					**2349 ± 102**		**3.9 ± 0.05**	

N and *n*, number of fishes used for fecundity and oocyte size calculation, respectively. References: (A) F.D. *et al.* (unpublished data); (B) R. L. Robinson (unpublished data). *, value corresponds to the arithmetic mean of the longest and smallest lengths of the oocytes. Means ± SEM per fish category are shown in bold type.

Table S2. Some reproductive characteristics of Lake Tanganyika mouthbrooding cichlids

Species	Habitat	Body mass, g	Batch fecundity	Relative fecundity (kg^{-1})	Oocyte diameter, mm	Ref
Bathybates ferox	Pelagic	785.9	63	80	7	12, 18, 19
Bathybates horni	Pelagic	360.1	63	175	6.5	12, 18, 19
Bathybates minor	Pelagic	166.4	60	361	6	12, 18, 19
Hemibates stenosoma	Pelagic	610.4	31	51	7	12, 18, 19
Means				**167 ± 70**	**6.6 ± 0.24**	
Callochromis macrops	Benthic	22.5	51	2269	4.2	15
Gnathochromis permaxillaris	Benthic	104.6	150	1434	2	12, 18, 19
Gnathochromis pfefferi	Benthic	11.5	52	4537	3.1	15
Greenwoodochromis bellcrossi	Benthic	220.9	200	906	2.5	12
Limnochromis staneri	Benthic	210.3	200	951	2	12
Plecodus multidentatus	Benthic	246.9	44	178	2.5	12
Reganochromis calliurus	Benthic	100.3	104	1036	2.2	12
Reganochromis centropomoides	Benthic	102.5	200	1952	2.8	12
Tangachromis dhanisi	Benthic	17.0	50	2948	2	12, 18, 19
Trematocara kufferathi	Benthic	8.4	37	4386	1.5	12, 18, 19
Trematocara nigrifons	Benthic	43.7	71	1625	3	12
Trematocara unimaculatum	Benthic	100.3	60	598	2	12
Triglachromis otostigma	Benthic	29.1	100	3437	1	12
Xenochromis hecqui	Benthic	748.2	300	401	2.5	12
Xenotilapia longispinis	Benthic	130.2	52	400	3.5	12
Xenotilapia nigrolabiata	Benthic	64.1	20	312	4	12
Xenotilapia ornatipinnis	Benthic	56.7	45	794	2	12
Xenotilapia sima	Benthic	33.8	62	1832	3.6	15
Xenotilapia ochrogenys	Benthic	8.4	35	4149	3.1	15
Means				**1797 ± 331**	**2.6 ± 0.19**	
Aulonocranus dewindti	Rocky	11.9	25	2092	4.3	15
Cyathopharynx furcifer	Rocky	44.9	48	1069	4.7	15
Cyphotilapia frontosa	Rocky	1096.9	25	23	6.7	13, 14
Cyprichromis leptosoma	Rocky	10.1	11	1090	4.4	15, 18, 19
Eretmodus cyanostictus	Rocky	4.3	17	3970	3.6	15
Ophthalmotilapia nasutus	Rocky	21.7	19	875	5	15
Ophthalmotilapia ventralis	Rocky	9.7	13	1346	4.8	15
Perissodus microlepis	Rocky	41.6	171	4114	1.7	12
Petrochromis famula	Rocky	24.3	17	698	6.4	15
Petrochromis orthognathus	Rocky	31.8	29	913	6	15
Petrochromis polyodon	Rocky	71.1	22	309	7.1	15
Pseudosimochromis curvifrons	Rocky	10.5	8	760	4.5	15
Simochromis diagramma	Rocky	13.6	20	1471	5.2	15
Simochromis marginatus	Rocky	15.2	19	1249	4.5	15
Spathodus marlieri	Rocky	3.6	15	4179	3.5	14, 17
Tropheus duboisi	Rocky	18.8	8	426	6.1	16
Tropheus moorii	Rocky	16.9	12	709	6.3	16
Means				**1488 ± 322**	**5.0 ± 0.33**	

Means ± SEM per fish category appear in bold type.

Table S3. Some reproductive characteristics of Lake Victoria mouthbrooding haplochromine cichlids

Species	Habitat	Body mass, g	Batch fecundity	Relative fecundity (kg^{-1})	Oocyte diameter, mm	Ref
Haplochromis "kribensis"	Pelagic	7.5	22	2917	3.5	20, 21, 23
H. "argens"	Pelagic	5.3	23	4340	3.4	22, 23
H. laparogramma	Pelagic	8.5	20	2349	3.6	22, 23
H. heusinkveldi	Pelagic	7.5	26	3448	3.7	22, 23
H. pyrrhocephalus	Pelagic	3.9	27	6864	3.1	22, 23
H. piceatus	Pelagic	5.1	33	6530	3	22, 23
Means				**4408 ± 473**	**3.4 ± 0.11**	
H. "nigrofasciatus"	Benthic	2.8	20	7054	3	21
H. "reginus"	Benthic	3.6	28	7687	3.1	21, 22, 23
H. nanoserranus	Benthic	28.2	66	2340	3.4	20
H. "dusky wine-red fin"	Benthic	3.2	32	9932	3.1	21
H. crocopeplus	Benthic	28.2	82	2907	3.4	20
H. "red tail incurved head"	Benthic	11.9	63	5273	3.2	21
H. teegelaari	Benthic	17.6	87	4945	3.2	21
H. "cinctus-like"	Benthic	6.0	63	10494	2.8	21
H. "red tridens"	Benthic	7.3	68	9284	2.4	21
H. "profundus"	Benthic	17.6	94	5343	3.2	21
Means				**6526 ± 899**	**3.1 ± 0.09**	
Pundamilia nyererei	Rocky	5.9	33	5580	3.6	24
Neochromis rufocaudalis	Rocky	22.9	25	1093	3.5	20, 21
Neochromis greenwoodi	Rocky	14.1	27	1912	3.2	21
Means				**2862 ± 1379**	**3.4 ± 0.12**	

Means ± SEM per fish category appear in bold type.

Table S4. Some reproductive characteristics of the noncichlid pelagic fish species of the East African Great Lakes and of the most common marine pelagic teleost species

Species	Relative fecundity (kg^{-1})	Oocyte diameter, mm	Ref
Marine pelagic species	**419,183 ± 74215**	**0.99 ± 0.05**	
Scombridae	**295,951 ± 112,394**	**0.98 ± 0.03**	
Thunnus albacares	12,700	0.96	25
Thunnus alalunga	161,300		25
Thunnus obesus	188,311	1.05	25
Thunnus maccoyii	571,428	0.71	25
Thunnus thynnus	123,762	1.0	25
Acanthocybium solandri	560,747		25
Euthynnus affinis	95,455		25
Euthynnus alletteratus	17,750		25
Scomber scombrus	1,709,401	1.15	25
Scomberomorus cavalla	28,110		25
Scomberomorus commerson	99,043		25
Scomberomorus maculatus	192,678	1.0	25
Auxis thazard thazard	501,253		25
Auxis rochei rochei	124,000	0.97	25
Katsuwonus pelamis	53,333	1.0	25
Engraulidae	**512,880 ± 112,679**	**1.08 ± 0.10**	
Engraulis mordax	191,667	1.01	25
Engraulis encrassicolus	100,000	1.5	25
Anchoa hepsetus	356,250	1.08	25
Encrassicholina heterolobus	775,000	0.74	26
Encrassicholina devisi	1,039,000		27
Encrassicholina punctifer	875,000		28
Encrassicholina indicus	694,000		25, 27
Thrissina baelama	361,000		29
Stolephorus waitei	224,000		28
Clupeidae	**306,311 ± 65,433**	**1.16 ± 0.13**	
Clupea harengus	327,869	1.16	25
Clupea pallasi	86,301	1.4	25
Sardinops sagax	227,273	1.1	25
Sardinella pilchardus	576,923	1.5	25
Herklotsichthys quadrimaculatus	319,500	0.65	30,31
Amblygaster sirm	300,000		29
Dussumieriidae	**1,228,000 ± 461,000**	**0.59 ± 0.005**	
Spratelloides delicatulus	767,000	0.59	26,31
Spratelloides gracilis	1,689,000	0.58	26,28
Leiognathidae			
Leiognathus bindus	484,000	0.6	29, 32
African Great Lakes noncichlid pelagic species			
Engraulicypris sardella		0.5	38
Stolothrissa tanganicae		<1.0	34
Limnothrissa miodon	1,532,000	<1.0	37
Lates stappersi	550,000	0.5	33
Rastrineobola argentea	583,000	0.5	35, 36

Means ± SEM per fish category in bold.