

Invalid neotype designations by Fricke (1999)

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A book on the fishes of the Mascarene Islands (including Réunion, Mauritius, Rodriguez, and Soudan Bank) published by Fricke (1999), provided records of 1123 species, including 132 new records and descriptions of 3 new species. Although this comprehensive ichthyofaunal study is of great importance to ichthyologists, it included new neotype designations that were not sufficiently in accordance with the mandatory provisions listed under Article 75.3 (Qualifying conditions) and 75B (Consultation with specialists) of the ICZN (1999). Although a short note included under Editorial Notes and News in ASIH (2000, pp. 639–640) referred to “several” neotypes having been so designated, in two separate publications, in fact a total of 102 neotypes (Table 1) were designated in the above publication alone. None of these “neotypes” satisfied ICZN requirements. Accordingly, they should not be used.

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Table 1. List of invalid neotype designations by Fricke (1999)

Page listed	Family	Scientific name	Specimen or illustration designated
14	Lamnidae	<i>Squalus carcharias</i> Linnaeus, 1758	SMNS 20666 (jaw only), ca. 582 mm jaw length, Italy
16	Scyliorhinidae	<i>Squalus africanus</i> Gmelin, 1789	SMNS 8961, 497.9 mm SL, South Africa
54	Muraenidae	<i>Muraenophis undulata</i> Lacepède, 1803	SMNS 15071, 232.3 mm SL, Fuji
56		<i>Muraenophis grisea</i> Lacepède, 1803	SMNS 20881, 299.1 mm SL, Réunion
64	Ophichthyidae	<i>Muraena colubrina</i> Boddaert, 1781	SMNS 1453, 645.4 mm SL, Indonesia
69	Congridae	<i>Gymnothorax wilsoni</i> Bloch and Schneider, 1801	SMNS 14893, 258.3 mm SL, Australia
74	Clupeidae	<i>Clupanodon jussieu</i> Lacepède, 1803	MNHN A. 2208, size not provided, Mauritius (specimen is the holotype of <i>Clupeonia jussieu</i> Valenciennes in Cuvier and Valenciennes, 1847)
76		<i>Clupea ocellata</i> Pappe, 1854	SMNS 20659, 203.8 mm SL, South Africa

Page listed	Family	Scientific name	Specimen or illustration designated
80	Chirocentridae	<i>Clupea dorab</i> Forsskål, 1775	SMNS 1772, 438.0 mm SL, Egypt
82	Cyprinidae	<i>Nuria longimana</i> Lunel, 1881	SMNS 13188, 59.8 mm SL, Thailand
83		<i>Cyprinus auratus</i> Linnaeus, 1758	SMNS 20566, 175.9 mm SL, Japan
88	Sternoptychidae	<i>Argyropelecus hemigymnus</i> Cocco, 1829	SMNS 20604, 33.2 mm SL, Italy
94	Synodontidae	<i>Saurida rubrotaeniata</i> Liénard in Sauvage, 1891	SMNS 16971, 159.3 mm SL, Réunion
111	Atherinidae	<i>Atherina pinguis</i> Lacepède, 1803	SMNS 20821, 117.7 mm SL, Réunion
111		<i>Atherina affinis</i> Bennett, 1832	SMNS 20821, 117.7 mm SL, Réunion
111		<i>Atherina punctata</i> Bennett, 1833	SMNS 20821, 117.7 mm SL, Réunion
115	Scomberesocidae	<i>Sairis scombroides</i> Richardson, 1843	SMNS 1569, 243.0 mm SL, Australia
118	Hemiramphidae	<i>Esox far</i> Forsskål, 1775	SMNS 20567, 367.4 mm SL, Egypt
118		<i>Esox gladius</i> Lacepède, 1803	SMNS 20567, 367.4 mm SL, Egypt
118		<i>Hemirhamphus commersonii</i> Cuvier, 1829	SMNS 20567, 367.4 mm SL, Egypt
124	Monocentridae	<i>Gasterosteus japonicus</i> Houttuyn, 1782	SMNS 20568, 125.5 mm SL, Japan
135	Holocentridae	<i>Holocentrus diadema</i> Lacepède, 1802	SMNS 21147, 63.7 mm SL, Réunion
140		<i>Holocentrum leo</i> Cuvier, 1829	SMNS 3987, 205.1 mm SL, Western Samoa
143	Aulostomidae	<i>Fistularia chinensis</i> Linnaeus, 1766	SMNS 19831, 149.2 mm SL, New Caledonia
158	Scorpaenidae	<i>Scorpaena miles</i> Bennett, 1828	SMNS 21059, 121.9 mm SL, Réunion
162		<i>Scorpaena venosa</i> Cuvier, 1829	SMNS 19668, 142.5 mm SL, New Caledonia
166	Synanceiidae	<i>Scorpaena brachion</i> Lacepède, 1801	SMNS 3433, 280.5 mm SL, Egypt
173	Serranidae	<i>Perca rogaa</i> Forsskål, 1775	SMNS 3455, 241.1 mm SL, Egypt
181		<i>Epinephelus playfairi</i> Bleeker, 1879	SMNS 20809, 162.4 mm SL, Mauritius
184		<i>Perca fasciata</i> Forsskål, 1775	SMNS 20569, 163.8 mm SL, Egypt
188		<i>Holocentrus hexagonatus</i> Forster in Bloch and Schneider, 1801	SMNS 4107, 160.7 mm SL, Marshall Islands
199		<i>Holocentrus pantherinus</i> Lacepède, 1802	SMNS 21207, 126.9 mm SL, Réunion
208		<i>Variola albimarginata</i> Baissac, 1953	SMNS 20808, 138.2 mm SL, Mauritius
211	Grammistidae	<i>Perca sexlineata</i> Thunberg, 1793	SMNS 20942, 134.7 mm SL, Réunion
211		<i>Sciaena vittata</i> Lacepède, 1802	SMNS 20942, 134.7 mm SL, Réunion
217	Kuhliidae	<i>Dules malo</i> Valenciennes in Cuvier and Valenciennes, 1831	SMNS 21255, 106.2 mm SL, Western Samoa
218		<i>Sciaena mugil</i> Forster in Bloch and Schneider, 1801	SMNS 17724, 56.8 mm SL, Cook Islands
225	Apogonidae	<i>Centropomus aureus</i> Lacepède, 1802	SMNS 21206, 42.3 mm SL, Réunion
227		<i>Apogon vittiger</i> Bennett, 1833	SMNS 20647, 44.9 mm SL, Réunion
239	Malacanthidae	<i>Labrus latovittatus</i> Lacepède, 1801	SMNS 3080, 309.8 mm SL, Palau
239		<i>Taenianotus latovittatus</i> Lacepède, 1802	SMNS 3080, 309.8 mm SL, Palau
240	Pomatomidae	<i>Cheilodipterus heptacanthus</i> Lacepède, 1801	SMNS 20660, 124.4 mm SL, Australia
245	Carangidae	<i>Scomber fulvoguttatus</i> Forsskål, 1775	SMNS 21212, 141.1 mm SL, Egypt
251		<i>Scomber speciosus</i> Forsskål, 1775 (originally <i>S. rim</i> , <i>speciosus</i>)	SMNS 21210, 156.0 mm SL, Egypt
252		<i>Scomber cordyla</i> Linnaeus, 1758	SMNS 3819, 253.9 mm SL, Indonesia
258	Coryphaenidae	<i>Coryphaena hippurus</i> Linnaeus, 1758	SMNS 2201, 528.8 mm SL, Italy
266	Lutjanidae	<i>Labrus octovittatus</i> Lacepède, 1801	SMNS 21218, 186.8 mm SL, Indonesia
267		<i>Sparus lepisurus</i> Lacepède, 1802	SMNS 21219, 164.5 mm SL, Egypt
270		<i>Sciaena gibba</i> Forsskål, 1775	SMNS 21220, 134.7 mm SL, Egypt
273		<i>Diacope angulus</i> Bennett, 1832	SMNS 20805, 182.7 mm SL, Mauritius
275		<i>Diacope sebae</i> Cuvier, 1816	SMNS 10275, 607.0 mm SL, Indonesia
280	Caesionidae	<i>Caesio caeruleus</i> Lacepède, 1801	SMNS 21253, 161.5 mm SL, New Caledonia
302	Lethrinidae	<i>Sciaena grandoculis</i> Forsskål, 1775	SMNS 14404, 152.7 mm SL, Iraq
305	Polynemidae	<i>Sciaena pentadactyla</i> Lacepède, 1802	Original illustration of <i>Polynemus plebeius</i> [Broussonet, 1782: unnumbered 8th plate (7th species)]
307	Mullidae	<i>Mullus flavolineatus</i> Lacepède, 1801	SMNS 20816, 122.7 mm SL, Réunion
310		<i>Mullus barberinus</i> Lacepède, 1801	SMNS 8921, 162.5 mm SL, Papua New Guinea
311		<i>Mullus bifasciatus</i> Lacepède, 1801	SMNS 20801, 238.7 mm SL, Mauritius
311		<i>Mullus trifasciatus</i> Lacepède, 1801	SMNS 20801, 238.7 mm SL, Mauritius
324	Drepanidae	<i>Chaetodon punctatus</i> Linnaeus, 1758	SMNS 21208, 110.8 mm SL, Australia
327	Chaetodontidae	<i>Chaetodon blackburnii</i> Desjardins, 1836	ZMB 9468, 81.5 mm SL, Mauritius
338		<i>Chaetodon vagabundus</i> Linnaeus, 1758	SMNS 16981, 82.7 mm SL, Réunion
338		<i>Chaetodon nesogallicus</i> Cuvier, 1829	SMNS 16981, 82.7 mm SL, Réunion

Page listed	Family	Scientific name	Specimen or illustration designated
342		<i>Chaetodon zoster</i> Bennett, 1832	ZMB 9474, size not provided, Mauritius
342		<i>Chaetodon macrolepidotus</i> Linnaeus, 1758	SMNS 21204, 56.7 mm SL, Kenya
350	Pomacanthidae	<i>Chaetodon diacanthus</i> Boddaert, 1772	SMNS 640, 145.0 mm SL, Indonesia
351	Cirrhitidae	<i>Cirrhites grandimaculatus</i> Liènard in Sauvage, 1891	ZMB 6456 (largest specimen of 3), 61.6 mm SL, Mauritius
358	Mugilidae	<i>Mugil crenilabis</i> Forsskål, 1775	SMNS 3541, 225.3 mm SL, Egypt
376	Pomacentridae	<i>Chaetodon aruanus</i> Linnaeus, 1758	SMNS 21203, 56.8 mm SL, R�union
388		<i>Holocentrus nigricans</i> Lacep�de, 1802	SMNS 21254, 102.4 mm SL, Cook Islands
388		<i>Pomacentrus nigricans</i> Quoy and Gaimard, 1825	SMNS 21254, 102.4 mm SL, Cook Islands
393	Labridae	<i>Anampses lunatus</i> Sauvage, 1891	SMNS 8636, 80.1 mm SL, Philippines
401		<i>Labrus enneacanthus</i> Lacep�de, 1801	SMNS 20807, 189.3 mm SL, Mauritius
407		<i>Labrus cingulum</i> Lacep�de, 1801	SMNS 20784, 21.5 mm SL, R�union
415		<i>Halichoeres virescens</i> Fourmanoir and Gu�z�, 1961	SMNS 17000, 114.4 mm SL, R�union
431		<i>Labrus albovittatus</i> Bonnaterre, 1788	SMNS 21222, 102.2 mm SL, R�union
433		<i>Julis (Julis) amblycephalus</i> Bleeker, 1856	SMNS 20694, 46.7 mm SL, R�union
437		<i>Labrus zeylanicus</i> Forster, 1781	Illustrated by Gronovius (1754: pl. 6, fig. 2), being designated also as the lectotype of <i>Labrus lunaris</i> Linnaeus, 1758, by Fricke (1999)
444		<i>Scarus purpureus</i> Forsskål, 1775	SMNS 21213, 214.8 mm SL, Egypt
448		<i>Coryphaena pentadactyla</i> Linnaeus, 1758	SMNS 21223, 134.6 mm SL, Egypt
522	Gobiidae	<i>Gobius lagocephalus</i> Pallas, 1770	MNHN 841, 88 mm SL, R�union (specimen is the syntype of <i>Sicydium laticeps</i> Valenciennes in Cuvier and Valenciennes, 1837)
528	Ephippidae	<i>Chaetodon pentacanthus</i> Lacep�de, 1802	SMNS 10727, size not provided, Indonesia
531	Siganidae	<i>Scarus stellatus</i> Forsskål, 1775	SMNS 3466, 233.7 mm SL, Egypt
537	Acanthuridae	<i>Chaetodon lineatus</i> Linnaeus, 1758	SMNS 4848, 164.8 mm SL, Papua New Guinea
539		<i>Chaetodon nigrofuscus</i> Forsskål, 1775	SMNS 21214, 109.6 mm SL, Egypt
546		<i>Naseus brevirostris</i> Cuvier, 1829	SMNS 19633, 181.5 mm SL, New Caledonia
551		<i>Acanthurus scopas</i> Cuvier, 1829	SMNS 21217, 41.5 mm SL, New Caledonia
551		<i>Acanthurus suillus</i> Cuvier, 1829	SMNS 21217, 41.5 mm SL, New Caledonia
568	Osphronemidae	<i>Osphronemus goramy</i> Lacep�de, 1801	SMNS 10811, 333.9 mm SL, Indonesia
573	Soleidae	<i>Achirus marmoratus</i> Lacep�de, 1802	SMNS 16813, 155.0 mm SL, Mauritius
576	Balistidae	<i>Balistes stellatus</i> Anonymous, 1798	SMNS 833, 170.6 mm SL, Tanzania
582		<i>Balistes fuscus</i> Bloch and Schneider, 1801	SMNS 1777, 119.3 mm SL, Egypt
583		<i>Balistes aculeatus</i> Linnaeus, 1758	SMNS 20760, 64.4 mm SL, R�union
587		<i>Balistes fraenatus</i> Latreille, 1804	SMNS 3883, 132.5 mm SL, Hawaiian Islands
587		<i>Balistes capistratus</i> Shaw, 1804	SMNS 3883, 132.5 mm SL, Hawaiian Islands
587		<i>Balistes mitis</i> Bennett, 1832	SMNS 3883, 132.5 mm SL, Hawaiian Islands
592	Monacanthidae	<i>Balistes hispidus longirostris</i> Bloch and Schneider, 1801	SMNS 21216, 68.0 mm SL, New Caledonia
597	Ostraciidae	<i>Ostracion cubicus</i> Linnaeus, 1758	SMNS 17007, 66.1 mm SL, R�union
597		<i>Ostracion tuberculatus</i> Linnaeus, 1758	SMNS 17007, 66.1 mm SL, R�union
599		<i>Ostracion punctatus</i> Bloch and Schneider, 1801	SMNS 21042, 76.4 mm SL, R�union
603	Tetraodontidae	<i>Tetraodon immaculatus</i> Bloch and Schneider, 1801	ZMB 9305, ca. 149 mm SL, Mauritius
609		<i>Tetraodon valentini</i> Bleeker, 1853	SMNS 15952, 73.2 mm SL, Indonesia
614	Diodontidae	<i>Diodon liturosus</i> Shaw, 1804	SMNS 3839, 196.9 mm SL, Indonesia

Institutional codes follow Leviton et al. (1985)
SL, standard length