

Standard Symbolic Codes for Institutional Resource Collections in Herpetology and Ichthyology

Version 1.5 Compiled by Mark H. Sabaj Pérez, 4 October 2010

Citation: Sabaj Pérez, M.H. (editor). 2010. Standard symbolic codes for institutional resource collections in herpetology and ichthyology: an Online Reference. Version 1.5 (4 Oct 2010). Electronically accessible at <http://www.asih.org/>, American Society of Ichthyologists and Herpetologists, Washington, DC.

Primary sources (all cross-checked): Leviton et al. 1985, Leviton & Gibbs 1988, <http://www.asih.org/codons.pdf> (originating with John Bruner) and Fricke & Eschmeyer 2010 (on-line v. 15 Jan)

Additional on-line resources for Biological Collections (cross-check: token)

<http://zefod.genres.de/>

<http://www.fishwise.co.za/>

<http://species.wikimedia.org/wiki/Holotype>

http://en.wikipedia.org/wiki/List_of_natural_history_museums

http://www.ncbi.nlm.nih.gov/IEB/ToolBox/C_DOC/lxr/source/data/institution_codes.txt

http://research.amnh.org/vz/herpetology/amphibia/?action=page&page=museum_abbreviations

<http://www.biodiversitycollectionsindex.org/static/index.html>

http://www.conabio.gob.mx/informacion/acttax/doctos/colecciones_cientificas.html

http://www.conabio.gob.mx/informacion/catalogo_autoridades/autorescolectorescolecciones/Instituciones_Colecciones.xls

http://www.conabio.gob.mx/informacion/catalogo_autoridades/autorescolectorescolecciones.old/Instituciones_Colecciones.xls

Citations

Fricke, R. & W.N. Eschmeyer. 2010. A guide to Fish Collections in the Catalog of Fishes database. On-line version of 15 January 2010.

Leviton, A.E. & R.H., Gibbs, Jr. 1988. Standards in Herpetology and Ichthyology. Standard symbolic codes for institution resource collections in herpetology and ichthyology. *Copeia* 1988 (no. 1): 280-282.

Leviton, A.E., R.H. Gibbs, Jr., E. Heal & C.E. Dawson. 1985. Standards in herpetology and ichthyology: Part I. Standard symbolic codes for institutional resource collections in herpetology and ichthyology. *Copeia* 1985 (no. 3): 802-832.

Notes: "formerly", "alternatively" and "newly" are short for "formerly named", etc.

Names for collections/institutions ordered with preference given to abbreviation

Please send corrections and updates, however minor, to Mark Sabaj Pérez at sabaj@ansp.org. Equally welcome is confirmation that a particular abbreviation remains in current use or disuse. For newly added collections and abbreviations, please include address and URL (if available).

ZEFOD: information system to botanical and zoological research collections in Germany
Fishwise: Universal Fish Catalog
Wikispecies, Holotype, directory
List of natural history museums, From Wikipedia, the free encyclopedia
National Center for Biotechnology Information
List of museum abbreviations compiled by Darrel R. Frost. 2010. Amphibian Species of the World: an Online Reference.
BCI: Biological Collections Index (to be key component in GBIF's Global Biodiversity Resources Discovery System (GBRDS))
Directory of Mexican collections
Download Excel file of collections compiled by CONABIO
Download Excel file of collections compiled by CONABIO (old version?)

ABBREVIATION	NAME	COUNTRY	SOURCE FOR ABBREVIATION			
			L85	L&G	F&E	(L85=Leviton et al. 1985, L&G=Leviton & Gibbs 1988, F&E=Fricke & Eschmeyer 2010)
AAU	Addis Ababa University, Department of Biology	Ethiopia	L85			
ABE	Tokiharu Abe Personal Collection; some types were housed at Tokyo fish market. Collection to be transferred to ZUMT.	Japan			F&E	
ABML	Auke Bay Marine Lab., Alaska & Northwestern Pacific Fisheries Center	U.S.A.		L&G		
ACAP	Aquaculture Center of Aomori Prefecture [alternatively Aomoriken Suisan Zoshoku Senta], Higashitsugaru	Japan	L85		F&E	
AFAQ	Queensland Amateur Fishing Clubs Association Inc. [formerly Amateur Fisheries Association of Queensland]; most specimens transferred to Queensland Museum (QM)	Australia			F&E	
AFY	Agustín Fernández-Yépez Personal Collection; extant material at FMNH, MBUCV, MHNSL	Venezuela			F&E	
AHF	Allan Hancock Foundation, University of Southern California, California; Fish types incorporated into LACM, Non-type collection still at AHF	U.S.A.			F&E	
AI	Asociación Ictiológica, La Plata	Argentina			F&E	
AIM	Auckland Museum Institute [formerly Institute and Museum], Auckland	New Zealand	L85		F&E	
AKPM	Akita Prefectural Museum, Akita	Japan			F&E	
AL	Alabama Museum of Natural History [formerly University of Alabama Museum of Natural History (UAMNH)], Tuscaloosa, Alabama; Also as ALA, UNAL (both obsolete), UAIC (current)	U.S.A.			F&E	
ALA	Obsolete; corrected to UAIC (Leviton & Gibbs 1988); also as AL.	U.S.A.	L85	L&G	F&E	
AMG	Albany Museum, Grahamstown	South Africa	L85		F&E	
AMNH	American Museum of Natural History, New York	U.S.A.	L85		F&E	
AMRL	Alabama Marine Resources Laboratory, Dauphin Island	U.S.A.	L85			
AMS	Australian Museum [formerly Colonial Museum Sydney (1827-1836)], Sydney, New South Wales	Australia	L85		F&E	
ANC	Departamento de Colecciones Naturales Marinas del Acuario Nacional de Cuba.	Cuba			F&E	
ANSP	Academy of Natural Sciences, Philadelphia, Pennsylvania	U.S.A.	L85		F&E	
ANU	Australian National University, Department of Zoology, Canberra	Australia	L85			
ANWC	Australian National Wildlife Collection, Canberra	Australia	L85			
APM	Aomori Prefectural Museum, Aomori	Japan			F&E	
APSU	Austin Peay State University, Museum, Clarkesville, Tennessee	U.S.A.	L85			
AQDM	Aquaculture Department Museum, Southeast Asian Fisheries Development Center, Tigbauan, Iloilo City, Panay	Philippines		L&G		
ARC	Atlantic Reference Centre, St. Andrews, New Brunswick	Canada	L85	L&G	F&E	
ARI	Research Institute for Aquaculture No. 1, Bac Ninh	Vietnam			F&E	
ARK	University of Arkansas, Museum, Fayetteville	U.S.A.	L85			
ASB	See ASK.	India			F&E	
ASIO	Chinese Academy of Sciences [formerly Academia Sinica], Institute of Oceanology, Qingdao	China	L85		F&E	
ASIZB	Chinese Academy of Sciences [formerly Academia Sinica], Institute of Zoology [formerly Fan Memorial Institute of Biology (1928-1962)], Beijing; also as FMIB	China	L85		F&E	
ASIZP	Academia Sinica, Institute of Zoology, Biodiversity Research Center, Taipei, Taiwan; replaces ASIZT (Lee et al. 2009)	Taiwan			F&E	
ASIZT	Academia Sinica [Chinese Academy of Sciences], Institute of Zoology, Taipei; replaced by ASIZP (Lee et al. 2009)	Taiwan	L85		F&E	
ASK	The Asiatic Society, Museum, Kolkata, West Bengal, India; also as ASB	India			F&E	
ASL	Alejandro Solórzano private collection, Serpentario Nacional	Costa Rica				Daza et al. 2009
ASSL	Academy of Science of St. Louis, St. Louis, Missouri	U.S.A.	L85			
ASU	Arizona State University, School of Life Sciences, Tempe, Arizona	U.S.A.	L85		F&E	
AUM	Auburn University Natural History Museum, Auburn, Alabama; also as AU (obsolete)	U.S.A.	L85	L&G	F&E	Gilbert 1998
AVG	Aquario Vasco da Gama, Lisboa	Portugal	L85			
AZUSC	Acervo Zoológico da Universidade Santa Cecília, Santos, São Paulo	Brazil			F&E	Carvalho-Filho et al. 2010

BAH	Biologische Anstalt Helgoland [formerly Königlich Biologische Anstalt Helgoland (1892-1918)], Helgoland	Germany	L85	F&E
BAMZ	Bermuda Aquarium, Museum and Zoo, Bermuda Zoological Society [formerly Natural History Society], Flatts Village; also as BZS, BNHS	Bermuda		F&E
BCFH	See NMFSH.	U.S.A.		F&E
BCPM	British Columbia Provincial Museum; See RBCM.	Canada	L85	F&E
BCU	See BCUE.	South Korea		F&E
BCUE	Department of Biology, The Graduate School of Higher Education, Cheongju University, Chongju [=Jeonju]; also as BCU	South Korea		F&E
BEKU	Department of Biology, Teacher's College, Kyungpook National University, Daegu	South Korea		F&E
BELUM	The Ulster Museum, Department of Natural Sciences, Belfast, Northern Ireland	U.K.		F&E
BFRIRS	Bangladesh Fisheries Research Institute, Riverine Station [formerly Freshwater Fisheries Research Station], Museum, Chandpur	Bangladesh		F&E
BFSU	See DHISUB.	Bulgaria		F&E
BIK	Institute of Biology and Ecology [formerly Biological Institute Kragujevac], Faculty of Mathematics and Natural Sciences, University of Kragujevac	Serbia		F&E
BIP	Biological Institute, Faculty of Natural Sciences and Mathematics, University of Montenegro [Univerzitet Crne Gore], Podgorica; also as BZF, BZT	Montenegro		F&E
BIRCUM	Zoological Museum, Institute of Biological Sciences, Faculty of Science, University of Malaya, Kuala Lumpur; also as UMKL (preferred, as in Ng & Kim 2008)	Malaysia		F&E
BIUB	Mongolian Academy of Sciences, Biological Institute, Ulan Bator [=Ulaanbaatar]	Mongolia	L85	
BKNU	Kunsan National University, Department of Biology, Gunsan, Jeollabuk-do	South Korea		F&E
BLIH	Biological Laboratory, Akasaka Imperial Palace, Imperial Household, Tokyo; also as LIAIP, LICPP (both obsolete); changed to BLIP in 2008-09 (Fricke & Eschmeyer 2010)	Japan		F&E
BLIP	Biological Laboratory, Imperial Palace, Tokyo; previously as BLIH, LIAIP, LICPP	Japan		F&E
BLUZ	Museo de Biología, Departamento de Biología, Facultad Experimental de Ciencias, Universidad del Zulia, Maracaibo, Zulia	Venezuela		F&E
BMAM	Beijing Museum of Natural History [formerly National Central Museum of Natural History (1951-1962)], Beijing	China	L85	F&E
BMNH	Natural History Museum [formerly British Museum (Natural History)], London; also as NHM	U.K.	L85	F&E
BMRI	Borneo Marine Research Institute [Institut Penyelidikan Marin Borneo (IPMB); formerly Fisheries Research Centre, Likas (1995-2000)], Kota Kinabalu, Sabah; also as FRCL, IPMB	Malaysia		F&E
BNHM	Bombay Natural History Society, Museum, Natural History Collection, Mumbai [formerly Bombay]	India	L85	F&E
BNHMD	Bengal Natural History Society, Natural History Museum, Darjeeling, West Bengal	India	L85	L&G
BNHS	See BAMZ.	Bermuda		F&E
BOC	Bingham Oceanographic Collection, now Yale Peabody Museum (YPM).	U.S.A.		F&E
BPBM	Bernice P. Bishop Museum, Department of Zoology, Honolulu, Hawaii	U.S.A.	L85	L&G F&E
BSKU	Kochi University, Department of Natural Science, Faculty of Science, Kochi [Includes Usa Marine Biological Laboratory materials]; also as ZIKU	Japan	L85	F&E
BSMP	University of the Philippines, National Institute for Science and Mathematics [formerly Department of Agriculture, Bureau of Science], Manila; evidently destroyed during World War II	Philippines		F&E
BSN	Biological Survey of Nevada	U.S.A.		Gilbert 1998
BSNH	Boston Society of Natural History [now Boston Museum of Science]; Extant specimens now at MCZ.	U.S.A.		F&E
BSRM	Marine Biological Station at Porto Novo, Reference Museum, Annamalai University, India.	India		F&E
BU	Butler University, Indianapolis, Indiana; as BUI in Fricke & Eschmeyer 2010; historical fish collection transferred to UF	U.S.A.		F&E Gilbert 2009
BU	Baylor University, Biology Department, Waco, Texas; obsolete, replaced by SMBU	U.S.A.		F&E Echelle & Echelle 1978
BYU	Brigham Young University, Monte L. Bean Life Science Museum, Provo, Utah	U.S.A.	L85	F&E
BZS	See BAMZ.	Bermuda		F&E

CA	Chicago Academy of Sciences, Chicago, Illinois	U.S.A.	L85	
CAC-CDMB	Ichthyological Collection, Corporación Autónoma Regional para la Defensa de la Meseta de Bucaramanga (CDMB), Bucaramanga	Colombia		F&E
CAGC	Carlos Alberto Gonçalves da Cruz private collection, deposited at MNRJ.	Brazil		F&E
CAM	Central Australian Museum, Alice Springs, Northern Territory	Australia	L85	F&E
CAR	Carlos A. Ardila Rodríguez Colección	Colombia		F&E
CAS	California Academy of Sciences, San Francisco, California; also as CAS-GVF, CAS-IU, CAS-SU	U.S.A.	L85	F&E
CAS-GVF	CAS specimens received from George Vanderbilt Foundation	U.S.A.	L85	F&E
CAS-IU	CAS specimens received from Indiana University, Bloomington, Indiana	U.S.A.	L85	F&E
CAS-SU	CAS specimens received from Stanford University, Palo Alto, California	U.S.A.	L85	F&E
CAUSC	Universidade Federal de Santa Catarina, Centro de Ciências Agrárias, Florianópolis, Santa Catarina	Brazil	L85	F&E
CBD	Collezione Ittiologica Balma-Delmastro [G.A.C Balma & G. B. Delmastro Private Collection], Torino	Italy		F&E
CBF	Colección Boliviana de Fauna, Museo Nacional de Historia Natural, Instituto de Ecología, Academia Nacional de Ciencias de Bolivia, La Paz; also as CFB	Bolivia		F&E
CBM	Natural History Museum and Institute, Chiba	Japan		F&E
CBS	See CBSIZA.	Azerbaijan		F&E
CBSIZA	Caspian Biological Station, Institute of Zoology, Azerbaijan National Academy of Sciences, Baku; also as CBS	Azerbaijan		F&E
CCB	Central College, Department of Zoology, Faculty of Science, Bangalore University [includes Central Inland Fisheries Tank Fisheries Unit], Bangalore	India	L85	F&E
CCML	Colección Ictiológica, Departamento de Ciencias Marinas, Universidad de La Laguna, La Laguna, Tenerife, Canary Islands.	Spain		F&E
CEDO	Centro Educativo Don Orione, Departamento de Biología, Montevideo	Uruguay	L85	
CEMBP	Center of Excellence in Marine Biology, University of Karachi, Karachi	Pakistan	L85	F&E
CEPFL	Centre d'Etude Pêches, Fort Lamy [formerly Centre O.R.S.T.O.M. de Fort Lamy]	Chad		F&E
CFBH	Celio F.B. Haddad Amphibian collection, Rio Claro, São Paulo	Brazil		Ferreira et al. 2010
CHM	Charleston Museum, Charleston, South Carolina	U.S.A.	L85	
CI-FML	Fundación Miguel Lillo, San Miguel de Tucumán	Argentina		F&E
CI-UFES	Coleção Ictiológica, Departamento de Ecologia e Recursos Naturais, Universidade Federal do Espírito Santo	Brazil		F&E
CIAD	Centro de Investigación en Alimentación y Desarrollo, A.C., Hermosillo, Sonora	Mexico		F&E
CIB	Chinese Academy of Sciences [Academia Sinica], Chengdu Institute of Biology, Chengdu, Sichuan	China	L85	F&E
CIBM	Centro de Investigaciones Biológicas del Noroeste, La Paz	Mexico		F&E
CICIMAR	Colección Ictiológica (CL), Laboratorio de Ictiología, Departamento de Pasquerías y Biología Marina, Centro Interdisciplinario de Ciencias Marinas, Instituto Politécnico Nacional, La Paz	Mexico		F&E
CIMAR	Pontificia Universidad Católica de Valparaíso, Centro de Investigaciones del Mar, Valparaíso	Chile	L85	F&E
CIP	Centro de Investigaciones Pesqueras, Cartagena	Colombia		F&E
CIPA	Centro de Investigación y Preservación de la Amazonia of the University of Cobjia	Bolivia		F&E
CIPBV	Centro de Investigaciones Pesqueras "Bella Vista", Bella Vista, Corrientes	Argentina		F&E
CIRA-UTB	Centro de Investigación de Recursos Acuáticos de la Universidad del Beni, Trinidad	Bolivia		F&E
CIRUV	See UV.	Colombia		F&E
CIUFES	Coleção Ictiológica, Departamento de Ecologia e Recursos Naturais, Universidade Federal do Espírito Santo	Brazil		F&E
CIZ	Centro de Investigaciones Zoológicas, Departamento de Ciencias Ecológicas, Facultad de Ciencias, Universidad de Chile	Chile		F&E
CM	Carnegie Museum of Natural History, Pittsburgh, Pennsylvania; Specimens now mostly at FMNH and CAS.	U.S.A.	L85	F&E
CMA	M. Arunachalam Personal Collection	India		F&E

CMC	Canterbury Museum, Christchurch	New Zealand	L85	F&E
CMFRI	See FMRI.	India		F&E
CMIZASDPRK	Custody Museum, Institute of Zoology, Academy of Sciences, Pyongyang	North Korea		F&E
CMK	Maurice Kottelat Personal Collection, Carnol; See also ZSM/CMK.	Switzerland		F&E
CMNFI	Canadian Museum of Nature Fish Collection, Ottawa; also as NMC, National Museums of Canada; Includes VMMB collection	Canada		F&E
CMNH	Cleveland Museum of Natural History, Vertebrate Zoology, Cleveland, Ohio	U.S.A.		F&E
CMS	National Museum, Colombo; See NMSL.	Sri Lanka	L85	F&E
CNHM	Croatian Natural History Museum [Hrvatski prirodoslovni muzej], Zoology Department, Zagreb	Croatia		F&E
CNP-IBUNAM	Colección Nacional de Peces, Instituto de Biología, Facultad de Ciencias, Universidad Nacional Autónoma de México, Mexico City; also as UNAM, IBUNAM; Some Darwin types transferred to BMNH in 1917	Mexico		F&E
CNRO	Centre National de Recherches Oceanographiques, Nosy-Be [=Nossi-bé]	Madagascar	L85	F&E
CNU	Division of Biological Science, College of Natural Science, Chonbuk National University, Chonju; also as CNUC, CUBK, CNUCK	South Korea		F&E
CNUC	See CNU.	South Korea		F&E
CNUCK	See CNU	South Korea		F&E
CPS	University of Puget Sound, Tacoma, Washington	U.S.A.	L85	
CPUM	Universidad Michoacana de San Nicolás de Hidalgo, Facultad de Biología, Laboratory de Biología Acuática, San Nicolás de Hidalgo, Morelia, Michoacán	Mexico		F&E
CPZM	Croatian People's Zoological Museum, Zagreb; See HZM.	Croatia	L85	F&E
CRCM	Charles R. Conner Museum, Washington State University, Pullman, Washington	U.S.A.	L85	
CRH	Centre de Recherche en Hydrobiologie, Uvira [formerly country of Zaire]; Also as CRHU.	Congo (DRC)		F&E
CRHU	See CRH.	Congo (DRC)		F&E
CRRHA	Centre Régional de Recherches en Hydrobiologie Appliquée, Bujumbura; existed 1992-1995, sponsored by Belgian Government	Burundi		F&E
CRS/ZSI	Central Regional Station, Marine Biological Station, Zoological Survey of India, Jabalpur, Madhya Pradesh	India		F&E
CSF	California State University, Fullerton, California	U.S.A.	L85	
CSI	Civica Stazione Idrobiologica, Milano	Italy	L85	
CSIRO	Commonwealth Scientific & Industrial Research Organisation, Division of Marine & Atmospheric Research, Hobart, Tasmania; formerly Division of Fisheries & Oceanography at Cronulla, NSW; includes specimens from Marine Lab, Sydney	Australia	L85	F&E
CSJ	Colegio de San Jose, Museo de Historia Natural, Medellin	Colombia	L85	
CSLB	California State University, Long Beach, California; See CSULB	U.S.A.	L85	
CSPU	California State Polytechnic University, Pomona, California	U.S.A.	L85	
CSTC	Colorado State Teachers College, Greeley, California	U.S.A.	L85	
CSU	Colorado State University, Colorado Cooperative Fish and Wildlife Research Unit, Fort Collins, Colorado	U.S.A.	L85	F&E
CSULB	California State University, Long Beach, California.	U.S.A.		F&E
CU	Cornell University Museum of Vertebrates, Ithaca, New York; also as CUMV	U.S.A.	L85	F&E
CUB	Chulalongkorn University, Faculty of Science, Bangkok; also as CUMZ	Thailand	L85	F&E
CUBK	See CNU.	South Korea		F&E
CUMV	Cornell University Museum of Vertebrates, Ithaca, New York; also as CU	U.S.A.		http://www.cumv.cornell.edu/
CUMV	See CU.	U.S.A.		F&E
CUMZ	Chulalongkorn University, Faculty of Science, Department of Biology, Museum of Zoology, Bangkok; also as CUB	Thailand		F&E
CUP	Charles University, Faculty of Natural Sciences, Division of Hydrobiology and Ichthyology, Prague; also as ZICUP	Czech Republic	L85	F&E
CUSC	Clemson University, Department of Biological Sciences, Vertebrate Collections, Clemson, South Carolina	U.S.A.	L85	L&G

CWS	Central Washington State College, Department of Biology, Ellensburg, Washington	U.S.A.	L85	
CZCEN	Colección Zoológica de la Facultad de Ciencias Exactas y Naturales, Universidad Nacional de Asunción	Paraguay		F&E
CZUT-IC	Colección Zoológica, Facultad de Ciencias, Universidad del Tolima, Ictiología, Ibagué, Tolima	Colombia		F&E
DATM	Dayton Museum of Natural History, Dayton, Ohio	U.S.A.	L85	
DAVK	DAV College, Zoology Department, Museum, Kanpur	India		F&E
DBCUCU	Departamento de Biología Celular y Genética de la Universidad de Chile, Santiago; also as DBGUCH	Chile	L85	F&E
DBFFEUCS	Departamento de Biología, Facultad de Ciencias, Universidad de Chile, Santiago; Probably the same as DBCUCU, DBGUCH	Chile		F&E
DBGUCH	Departamento de Biología Celular y Genética de la Universidad de Chile, Santiago; also as DBCUCU	Chile		Correa et al. 2008
DBSCNU	South China Normal University, College of Life Science, Department of Biology, Guangzhou; also as SCNU; Same institution as SCSFRI, but separate collection.	China		F&E
DDUGU	Deen Dayal Upadhyay Gorakhpur University, Faculty of Science, Department of Zoology, Zoological Museum, Gorakhpur, Uttar Pradesh	India		F&E
DFI	Dalian Fisheries Institute [Liaoning Marine Fisheries Research Institute], Dalian Maritime University, Dalian, Liaoning	China		F&E
DFV	Division of Fisheries, Department of Livestock, Ministry of Agriculture and Forestry, Vientiane	Laos		F&E
DGPM	Direction Generale des Peches Maritimes, Ministere de l'Industrie et du Commerce, Quebec, Quebec	Canada	L85	
DHFRI	Dong Hai Fishery Research Institute, Dong Hai, Bac Lieu	Vietnam		F&E
DHISUB	Department of Hydrobiology and Ichthyology, Faculty of Biology, St. Clement of Ohrid University of Sofia [Sofia University], Sofia; also as BFSU	Bulgaria		F&E
DHMB	Department of Harbours & Marine, Brisbane, Queensland; Collection transferred to Queensland Museum (QM)	Australia	L85	F&E
DISCA	Estación Biológica de Rancho Grande "Dr. Alberto Fernández Yépez" , Facultad de Agronomía, Universidad Central de Venezuela	Venezuela		F&E
DM	Durban Museum and Art Gallery, Durban	South Africa	L85	
DMNH	Dallas Museum of Natural History, Dallas, Texas	U.S.A.	L85	
DSP	Fitzsimons' Snake Park, Durban	South Africa	L85	
DU	Duke University, Vertebrate Collection, Durham, North Carolina; also as DUF or DU F- (fishes) mostly at ANSP, some recataloged with ANSP numbers	U.S.A.	L85	F&E
DUM	Dicle University [Dicle Üniversitesi], Zoological Museum, Zoology Branch, Department of Biology, Faculty of Science and Letters, Diyarbakir	Turkey		F&E
DVZUT	Zoological Museum, Department of Vertebrate Zoology, College of Natural Science, Vietnam National University of Hanoi [formerly University of Indochina], Hanoi; also as ZMUH	Vietnam		F&E
DZAUT	See LZUT.	Greece		F&E
DZSASP	Instituto de Zootecnia, Secretaria da Agricultura [formerly Departamento de Zoologia, Museu Paulista], São Paulo; transferred to MZUSP	Brazil		F&E
DZSJR	Departamento de Zoologia e Botânica, Universidade Estadual Paulista "Júlio de Mesquita Filho", Campus de São Jose do Rio Preto, São Paulo	Brazil		F&E
DZUFMG	Departamento de Zoologia, Instituto de Ciências Biológicas, Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais	Brazil		F&E
DZUFRGS	Departamento de Zoologia, Instituto de Biociências, Universidade Federal do Rio Grande do Sul, Porto Alegre; also as UFRGS	Brazil		F&E
DZUH	Departamento de Zoologia, Facultad de Ciencias Naturales y Exactas, Universidad de La Habana, Habana	Cuba		F&E
DZVU	Universidad de Uruguay, Departamento de Zoología Vertebrados, Montevideo	Uruguay	L85	F&E
EAMFRO	East African Marine Fisheries Research Organization [transferred to Institute of Marine Sciences, Zanzibar Branch, University of Dar-es-Salaam (1978-)], Zanzibar	Tanzania		F&E

EAWAG	Eidgenössische Anstalt für Wasserversorgung, Abwasserreinigung und Gewässerschutz [Swiss Federal Institute of Aquatic Science and Technology], Kastanienbaum	Switzerland	L85	L&G	F&E
EBMC	Estación de Biología Marina de Montemar, Universidad de Valparaíso [formerly Chile], Viña del Mar, Valparaíso	Chile	L85		F&E
EBMTV	Estación de Biología Marina, Instituto Tecnológico de Veracruz	Mexico			F&E
EBRG	Estacion Biología de Rancho Grande, Museo, Maracay	Venezuela	L85		
EBUAP	Escuela de Biología, Benemérita Universidad Autónoma de Puebla, Puebla	Mexico			Daza et al. 2009
ECO-CH	See ECOSC.	Mexico			F&E
ECOCH	El Colegio de la Frontera Sur (ECOSUR), Chetumal, Quintana Roo	Mexico			F&E
ECOSC	El Colegio de la Frontera Sur (ECOSUR), San Cristóbal de Las Casas, Chiapas; also as ECO-CH	Mexico			F&E
ECSFI	East China Sea Fisheries Research Institute, Chinese Fishery Science Research Institute, Chinese Academy of Fishery Science, Shanghai	China			F&E
EEBP	Estação Experimental de Biologia e Piscicultura de Pirassununga, Centro de Pesquisa e Gestão de Recursos Pesqueiros Continentais, IBAMA, Ministério do Meio Ambiente, Pirassununga, São Paulo	Brazil			F&E
EI	Universidade Federal Rural, Eugenio Izecksohn Amphibian collection, Rio de Janeiro; also as EI-UFRRJ	Brazil	L85		Ferreira et al. 2010
EKU	Eastern Kentucky University, Department of Biological Sciences, Richmond, Kentucky	U.S.A.			F&E
EKZNW	Ezemvelo KZN Wildlife [formerly Natal Parks Board], Cascades, KwaZulu-Natal; also as NMP/NPB	South Africa			F&E
ENCB	Escuela Nacional de Ciencias Biológicas, Instituto Politécnico Nacional	Mexico	L85		
ENCB	Universidad Autónoma de Baja California, Campus Ensenada; also as UABC	Mexico			F&E
ENEPI	Escuela Nacional de Estudios Profesionales Iztacala, Universidad Nacional Autónoma de México, Tlalnepantla de Baz, Mexico City	Mexico			Daza et al. 2009
ENMU	Eastern New Mexico University, Portales, New Mexico	U.S.A.			Gilbert 1998
EPN	Escuela Politécnica Nacional, Quito	Ecuador	L85		F&E
ERS/ZSI	Eastern Regional Station, Zoological Survey of India, Shillong, Meghalaya; also as V/A/ERS	India			F&E
ESFM	Ege Üniversitesi Su Ürünleri Fakültesi [alternatively as Inland-water Fish Collections of the Faculty of Fisheries, Ege University (ESFM-PISI)], Bornova, İzmir	Turkey			F&E Küçük 2007
EUB	Laboratory of Biology, Faculty of Science, Ehime University	Japan			F&E
EUK	Eastern Kentucky University, Museum, Richmond, Kentucky	U.S.A.	L85		
EWNHM	Ewha Womens University, Ewha Natural History Museum, Seoul	South Korea			F&E
F/GUZ	See GUZ.	India			F&E
FAK	[formerly Faculty of Agriculture], Department of Fisheries, School of Agriculture, Kinki University, Osaka City	Japan			F&E
FAKOU	Kochi University, Faculty of Agriculture, Kochi, Japan. Specimens now in BSKU.	Japan			F&E
FAKU	Faculty of Agriculture [formerly Department of Fisheries (1923-2001)], Kyoto University, Kyoto [collection housed at Maizuru, not Kyoto]; See also FRSKU	Japan	L85		F&E
FAQ	Fisheries Administration of Qujing, Qujing, Yunnan	China			F&E
FAU	Florida Atlantic University, Department of Biological Sciences, Boca Raton, Florida	U.S.A.	L85		
FBQ	Fisheries Branch, Department of Primary Industries & Fisheries Queensland, Brisbane	Australia			F&E
FCLR	Fundación Científica Los Roques, Caracas	Venezuela			F&E
FCRM	Fisheries College and Research Institute, Museum, Tamil Nadu Veterinary and Animal Sciences University [formerly Agricultural School; Madras Veterinary College], Thoothukudi [=Tuticorin], Tamil Nadu	India			F&E
FCSCNU	[formerly Fishery College], South China Normal University, College of Life Science, Guangzhou; now in PRFRI	China			F&E
FCSNU	See PRFRI.	China			F&E
FDNR	Florida Department of Natural Resources; Also as FSBC	U.S.A.	L85		F&E
FESC	See PRFRI.	China			F&E

FFR	Zoological Museum, Sürmene Faculty of Marine Sciences [formerly Faculty of Fisheries], Karadeniz Technical University, Rize	Turkey			F&E
FFSUC	Faculty of Forestry Sciences [Facultad de Ciencias Forestales], Universidad de Chile, Ichthyological Collection, Santiago	Chile			F&E
FLIN	Flinders University, Adelaide, South Australia	Australia	L85		
FLMNH IP	Florida Museum of Natural History, Invertebrate Paleontology Division, University of Florida, Gainesville, Florida; seen only for locality references	U.S.A.			Portell et al. 2008
FLSM	Fundacion La Salle de Ciencias Naturales, Boca del Rio, Isla Margarita	Venezuela	L85		
FM	Department of Nature, Fujian Provincial Museum, Fuzhou	China			F&E
FMIB	See ASIZB.	China			F&E
FML	Fundación Miguel Lillo, Tucumán	Argentina	L85		F&E
FMNH	Field Museum of Natural History, Zoology Department, Chicago, Illinois; also as CMNH (abbreviation occupied); Includes specimens from IU.	U.S.A.	L85		F&E
FMNH PF	Field Museum of Natural History, Geology Department, Chicago, Illinois (paleo fishes)	U.S.A.			Gottfried & Krause 1998; Gilbert 1998
FMNH UF	Field Museum of Natural History, Geology Department (formerly Walker Museum, University of Chicago), Chicago, Illinois	U.S.A.			http://www.asih.org/codons.pdf
FMRI	Central Marine Fisheries Research Institute, Regional Centre, Mandapam Camp, Tamil Nadu; also as CMFRI	India	L85	L&G	F&E
FNU	Nagasaki University, Faculty of Fisheries, Nagasaki	Japan	L85		F&E
FOSJ	Fisheries and Oceans Canada Newfoundland and Labrador Region, St. John's, Newfoundland	Canada	L85		
FRCL	See BMRI.	Malaysia			F&E
FRI	Fisheries Research Institute, Glugor, Penang	Malaysia	L85		
FRIHP	Fisheries Research Institute, Hunan Province	China			F&E
FRLM	Fisheries Research Laboratory, Mie University, Tsu, Mie Prefecture	Japan	L85	L&G	F&E
FRSKU	Kyoto University, Faculty of Agriculture, Fisheries Research Station; See also FAKU	Japan	L85		F&E
FSBC	Florida Fish & Wildlife Conservation Commission, Fish & Wildlife Research Institute [formerly Florida State Board of Conservation Marine Laboratory, among others], St. Petersburg, Florida; also as FDNR	U.S.A.			F&E
FSFL	Far Seas Fisheries Research Laboratory, Orido, Shizuoka Prefecture; See also FSFRL	Japan	L85		F&E
FSFRL	National Research Institute of Far Seas Fisheries, Fisheries Research Agency [formerly Far Seas Fisheries Research Laboratory], Shimizu, Shizuoka; also as FSFL	Japan			F&E
FSIU	Laboratory of Fisheries, Department of Oceanography, College of Natural Science, Inha University	South Korea			F&E
FSJF	Fischsammlung Jörg Freyhof private collection, Berlin, Germany	Germany			F&E
FSKU	Kitasato University, School of Fisheries Sciences, Iwate Prefecture	Japan	L85		F&E
FSM	See UF.	U.S.A.			F&E
FSU	Florida State University; Transferred to University of Florida, Florida Museum of Natural History, Gainesville; also as UF-FSU.	U.S.A.			F&E Gilbert 1998
FTU	Florida Technological University, Orlando, Florida	U.S.A.	L85		
FU	Fudan University, Fujian	China	L85		
FUE	Fukada University of Education	Taiwan		L&G	
FUMT	University of Tokyo, Department of Fisheries, University Museum [formerly University Storage Center for Research Materials (1966-1997)], Tokyo	Japan	L85		F&E
FURG	Fundação Universidade Federal do Rio Grande, Departamento de Oceanografia, Rio Grande, Rio Grande do Sul	Brazil	L85		
FWM	Fort Worth Museum of Science and History, Fort Worth, Texas	U.S.A.	L85		
GAUBA	Australian National University, Canberra, Australian Capital Territory	Australia	L85		
GBERL	Gulf Breeze Environmental Research Laboratory, Gulf Breeze, Florida	U.S.A.	L85		
GCM	Government College University, Faculty of Science and Technology, Department of Zoology, Lahore	Pakistan	L85		F&E

GCRL	Gulf Coast Research Laboratory, The University of Southern Mississippi, Ocean Springs, Mississippi; also as GCRLM; Some specimens moved to USM	U.S.A.	L85	F&E
GCRLM	See GCRL.	U.S.A.		F&E
GMBL	Grice Marine [formerly Biological] Laboratory, College of Charleston, Charleston, South Carolina	U.S.A.	L85	F&E
GMNGZ	Glasgow Museum and Art Galleries, Natural History/Zoology, Glasgow, Scotland; attributed to University of Glasgow, Hunterian Museum in Fricke & Eschmeyer 2010	U.K.	L85	F&E
GMNH	Georgia Museum of Natural History, D.S. Scott Ichthyology Collection, Natural History Building, University of Georgia, Athens, Georgia	U.S.A.		F&E
GMU	George Mason University, Vertebrate Collection	U.S.A.		L&G
GNHM	See GNM.	Sweden		F&E
GNHNA	Gallery of Natural History and Native Art, Medlow Bath, New South Wales	Australia		F&E
GNM	Göteborgs Naturhistoriska Museum, Göteborg; replaces NHMG (sensu Leviton et al. 1985), GNHM, NMG	Sweden		L&G F&E
GNUMG	Grenada National Museum [formerly Museum of Georgetown], St. George's [formerly Georgetown]	Grenada		F&E
GRIF	Griffith University, Brisbane, Queensland	Australia	L85	
GSA	Geological Survey of Alabama, Tuscaloosa, Alabama	U.S.A.		Gilbert 1998
GUMF	Guwahati University Museum of Fish	India		F&E
GUZ	Gauhati University, Department of Zoology, Fish Biology and Fishery Science Laboratory, Guwahati, Assam; also as F/GUZ	India		F&E
GVF	George Vanderbilt Foundation. Specimens now at CAS.	U.S.A.		F&E
GXIF	Fisheries Institute of Guangxi Zhuang Autonomous Region	China		F&E
HACW	College of Fishery, Huazhong Agriculture Collection, Huazhong Agricultural University, Wuhan	China		F&E
HAF	Hafrannsóknastofnunin [Icelandic Marine Research Institute], Reykjavik	Iceland		F&E
HBOM	Harbor Branch Oceanographic Museum, Ft. Pierce, Florida	U.S.A.		F&E
HCMR	Hellenic Centre for Marine Research, Athens	Greece		F&E
HEL	Hel Marine Laboratory [now Station], Gdańsk University, Hel; also as HML	Poland		http://www.asih.org/codons.pdf
HKFRS	Hong Kong Fisheries Research Station [formerly with University of Hong Kong, Department of Zoology (1952-1960)], Aberdeen, Hong Kong	China	L85	F&E
HLM	Holophusikon, Leverian Museum (1775-1786), London, England; collection auctioned in 1806 and purchased by several museums, including NMW	U.K.		F&E
HLMD	Hessischen Landesmuseum Darmstadt, Darmstadt	Germany		Kammerer et al. 2005
HMG	Haslar Medical Museum, Royal Naval Hospital, Gosport, Hampshire, England; Collections transferred to BMNH	U.K.		F&E
HML	Hel Marine Station [formerly Laboratory], University of Gdańsk [Stacja Morska Instytutu Oceanografii Uniwersytetu Gdańskiego], Hel; also as HEL	Poland		F&E
HNHU	Hanoi University [formerly Hanoi Normal University], Department Sinh-KTNN, Hanoi	Vietnam		F&E
HRA	Heilongtan Reservoir Administration, Shilin County, Yunnan; also as RHLCY, RHS, HRSC	China		F&E
HSU	Humboldt State University, Arcata, California	U.S.A.	L85	
HUIC	Hacettepe Üniversitesi [University], Faculty of Science, Department of Biology, Ichthyological Collection, Ankara	Turkey		F&E
HUJ	The Hebrew University of Jerusalem, Faculty of Science, Department of Zoology, Zoological Museum, Jerusalem; also as HUJF	Israel	L85	F&E
HUMZ	Hokkaido University, Laboratory of Marine Zoology, Faculty of Fisheries, The Hokkaido University Museum, Hakodate, Hokkaido	Japan	L85	F&E
HVMSh	Heda Shipbuilding Local Data/Bottom Feeder Museum, Heda [merged with Numazu], Shizuoka	Japan		F&E http://www.shizutou-cb.jp/english/town/numazu.html
HZM	Croatian Natural History Museum [Hrvatski prirodoslovni muzej; formerly Croatian People's Zoological Museum], Zoology Department, Zagreb; also as CPZM	Croatia		F&E
IAA	Dirección Nacional del Antártico, Instituto Antártico Argentino, Museo, Buenos Aires	Argentina		F&E
IADIZA	Instituto Argentino de Investigación de Zonas Áridas, Mendoza	Argentina		F&E

IAMC-CMR	Istituto per lo Studio degli Ambienti Marini Costieri di Taranto, Taranto	Italy		F&E
IAVH	Instituto de Investigación de Recursos Biológicos Alexander von Humboldt, Villa de Leyva, Bogotá; also as IAVH-P (fishes)	Colombia		F&E
IB	Instituto Butantan, São Paulo	Brazil	L85	
IBA	Instituto de Biología Animal, Mendoza	Argentina		F&E
IBAB	Instituto de Biología Aplicada, Facultad de Biología, Universidad de Barcelona, Barcelona	Spain		F&E
IBAUNC	Universidad Nacional de Cuyo, Instituto de Biología Animal, Medoza	Argentina	L85	F&E
IBH	Universidad Nacional Autónoma de México, Instituto de Biología, Departamento de Zoología, Mexico City	Mexico	L85	F&E
IBMC	Instituto de Biología Marina, Mar del Plata	Argentina	L85	
IBRP	Institute for Breeding Research, Tokyo University of Agriculture, Tokyo	Japan		F&E
IBSD	Institute of Bioresources and Sustainable Development, Ministry of Science and Technology, Government of India, Takyelpat, Imphal, Manipur	India		F&E
IBSP	Instituto Butantan, Herpetological collection Alphonse Richard Hoge, São Paulo, São Paulo; destroyed by fire in 2010	Brazil		Ferreira et al. 2010
IBTS	Taxonomy Research Group, Research Centres in Biology Field, University of Bucharest, Tr. Savulescu, Bucharest [formerly ISBB, Institutul de Stiinte Biologice, Bucuresti]	Romania	L85	F&E
IBUNAM	See CNP-IBUNAM.	Mexico		F&E
IBUT	Institute of Biological Sciences, University of Tsukuba, Ibaraki, Honshu	Japan	L&G	
ICM	See IIPB.	Spain		F&E
ICMN	Misspelling in de Santana & Maldonado-Ocampo (2005:224); correct as IMCN	Colombia		F&E de Santana & Maldonado-Ocampo 2005
ICN-MHN	See ICNMHN.	Colombia		F&E
ICNMHN	Instituto de Ciencias Naturales, Museo de Historia Natural, Facultad de Ciencias, Universidad Nacional de Colombia, Bogotá; Also as ICNMNH (obsolete) and ICN-MHN.	Colombia	L&G	F&E
ICNMNH	Replaced by ICNMHN	Colombia	L85 L&G	F&E
ICP	Instituto Clodomiro Picado, University of Costa Rica, San José	Costa Rica		Daza et al. 2009
IDSM	Instituto de Desenvolvimento Sustenavel, Mamiraua, Tefé	Brazil		de Santana & Vari 2010
IEBR	Institute of Ecology and Biological Resources, National Center for Natural Science and Technology of Vietnam, Hanoi	Vietnam		Kuch et al. 2005
IEOV	Instituto Español de Oceanografía, Vigo	Spain		F&E
IEPA	Instituto de Pesquisas Científicas e Tecnológicas, Estado do Amapá, Macapá	Brazil		F&E
IFAN	Institut Fondamental d'Afrique Noire [formerly Institut Français d'Afrique Noire (-1960)], Dakar	Senegal	L85	F&E
IFI	Imperial Fisheries Institute, Tokyo University of Fisheries, Tokyo [now Tokyo University of Marine Science and Technology (MTUF)]; collection now at MTUF	Japan		F&E
IFP	Integrated Fisheries Project, Museum of Marine Resources [formerly Museum Ocean Laboratory], Government of India, Kochi, Kerala	India		F&E
IFREMER	Institut Français de Recherche pour l'Exploitation de la Mer; fish types moved to MNHN and La Rochelle.	France		F&E
IHASW	Museum of Institute of Hydrobiology, Chinese Academy of Sciences [Academia Sinica], Wuhan, Hubei; also as IHB, IHCAS	China		F&E
IHB	See IHASW.	China		F&E
IHCAS	See IHASW. Museum of Institute of Hydrobiology, Chinese Academy of Sciences, Wuhan, Hubei	China		F&E
IIPB	Instituto de Ciencias del Mar [formerly Instituto de Investigaciones Pesqueras], Departament de Biologia Marina i Oceanografia, Barcelona; also as ICM	Spain	L&G	F&E
ILPLA	Instituto de Limnología "Dr. Raúl A. Ringuelet", La Plata; distinct from MLP	Argentina	L85	F&E
IMA	Institute of Marine Affairs, Chaguaramas, Trinidad	Trinidad & Tobago	L85	
IMARPE	Instituto del Mar del Perú, Lima	Peru	L85	F&E
IMCN	Museo de Ciencias, Instituto para la Investigación y Preservación del Patrimonio Cultural y Natural del Valle del Cauca, Cali; incorrectly as ICMN	Colombia		F&E
IMNH	Iceland Museum of Natural History, Reykjavik; See also NHMI	Iceland		F&E http://www.asih.org/codons.pdf
INALI	Instituto Nacional de Limnología, Universidad Nacional del Litoral, Santo Tomé	Argentina		F&E

INCDSB	Institutul National de Cercetare-Dezvoltare pentru Stiinte Biologice, Bucuresti [= Bucharest]	Romania		http://www.dbiuro.eu/
IND	Laboratoria de Fauna, Division de Fauna Terrestre, Instituto Nacional de Recursos Naturales Renovables y del Ambiente, Bogotá	Colombia	L&G	
INHS	Illinois Natural History Survey [descended in part from Illinois State Laboratory of Natural History], University of Illinois, Champaign, Illinois	U.S.A.	L85	F&E
INIBP	Instituto Nacional de la Pesca [formerly Instituto Nacional de Investigaciones Biológico Pesqueras], Col Santa Cruz Atoyac; also as INP	Mexico		F&E
INIDEP	Instituto Nacional de Investigación y Desarrollo Pesquero, Secretaría de Agricultura, Ganadería, Pesca y Alimentos del Ministerio de Economía y Producción, Mar del Plata	Argentina		F&E
INIP	Instituto Nacional de Investigação das Pescas e do Mar, Algés, Lisboa; also as IPIMAR	Portugal	L85	F&E
INP	See INIBP.	Mexico		F&E
INPA	Instituto Nacional de Pesquisas da Amazônia, Manaus, Amazonas	Brazil	L85	F&E
INVEMAR	Instituto de Investigaciones Marinas y Costeras "José Benito Vives de Andrés", Punta Betín, Santa Marta	Colombia	L85	F&E
IO	Instituto Oceanográfico, Universidade de São Paulo, Brazil. Formerly Instituto Paulista de Oceanografia	Brazil		F&E
IOAKE	Institute of Oceanographic & Fisheries Research, Athens	Greece	L85	
IOAN	P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow; Also as IORAS	Russia	L85	
IOC	Instituto Oswaldo Cruz, Rio de Janeiro	Brazil	L85	
IOCAS	Institute of Oceanology, Chinese Academy of Sciences [formerly Nanhai Oceanographic Institute], Qingdao; formerly ASIO, also as NOI	China		F&E
IOH	Academia de Ciencias de Cuba, Instituto de Oceanología, Habana	Cuba	L85	F&E
IOM	P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow; Also as IOAN, IORAN, IORAS	Russia		F&E
IOP	Izu Oceanic Park Museum, Izu; also as IOPM; Collection moved to KPM-NI in 2005	Japan		F&E
IOPM	Izu Oceanic Park Museum; also as IOP; Collection moved to KPM-NI in 2005	Japan	L85	F&E
IOR	Institute of Oceanography and Fisheries, Split	Croatia		http://www.asih.org/codons.pdf
IORAN	See IOM.	Russia		F&E
IORAS	P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow; Also as IOAN, IOM	Russia		Borodulina 2008
IORD	Tokai University Institute of Oceanic Research and Development, Shimizu; Includes Okada Collection	Japan	L85	F&E
IOS	Institute of Oceanographic Sciences, Godalming, England; Also as IOSDL, both newly represented by NOCS (sensu Fricke & Eschmeyer 2010)	U.K.	L85	F&E
IOSDL	Institute of Oceanographic Sciences Deacon Laboratory, Godalming, England [Kottelat et al. 1993 may have cited as IOSBL]	U.K.		http://www.asih.org/codons.pdf
IPMB	See BMRI.	Malaysia		F&E
IPN	Instituto Politecnico, Escuela Nacional de Ciencias Biológicas, Mexico City	Mexico	L85	F&E
IPNM	See IPN.	Mexico		F&E
IPPS	Fisheries Research Institute Sarawak, Kuching, Sarawak	Malaysia		F&E
IRAQ	Iraq Natural History Museum, Waziriya, Baghdad	Iraq	L85	
IRCZM	Indian River Coastal Zone Museum, Harbor Branch Foundation, Fort Pierce, Florida	U.S.A.	L85	
IRET	Institut de Recherche en Écologie Tropical, CENAREST, Libreville	Gabon		F&E
IRSCNB	Institut Royal des Sciences Naturelles de Belgique, Bruxelles [=Brussels]; also as IRSNB	Belgium		de Santana & Vari 2010
IRSM	Institut de Recherche Scientifique de Madagascar (1946-1957), Antananarivo [=Tananarive or Tana]; fishes mostly transferred to MNHN	Madagascar		F&E
IRSNB	Institut Royal des Sciences Naturelles de Belgique, Bruxelles [=Brussels]; Replacement for ISBN, ISNB, ISNM; also as IRScNB	Belgium	L85	F&E
ISBB	Institutul de Stiinte Biologice, Bucuresti [=Bucharest]; newly represented by IBTS (sensu Fricke & Eschmeyer 2010)	Romania	L85	F&E
ISBN	See IRSNB.	Belgium		F&E

ISC	Iowa State University, Ames, Iowa	U.S.A.		F&E
ISER	Institutul Speologie "Emil G. Racovita", Bucurest; considered no longer existing, now in IBTS (sensu Fricke & Eschmeyer 2010)	Romania		F&E
ISH	Johann Heinrich von Thünen-Institut (vTI), Bundesforschungsinstitut für Ländliche Räume, Wald und Fischerei, Institut für Seefischerei, Hamburg; collection now recataloged at ZMH	Germany	L85	F&E
ISLNH	Illinois State Laboratory of Natural History [preceded Illinois Natural History Survey]; extant material recataloged at INHS with ISLNH accession numbers cited in Sabaj et al. 1997	U.S.A.		Sabaj et al. 1997; Gilbert 1998
ISNB	Institut Royal des Sciences Natureles de Belgique; Replaced by IRSNB	Belgium		http://www.asih.org/codons.pdf
ISNM	See IRSNB.	Belgium		F&E
ISTPM	Institut Français de Recherche pour l'Exploitation de la Mer (IFREMER) [formerly Institut Scientifique et Technique des Pêches Maritimes (1918-1984)], Nantes	France	L85	F&E
ISU	Indiana State University, Terre Haute, Indiana	U.S.A.	L85	F&E
ISUA	Iowa State University, Ames, Iowa; also as ISC (obsolete)	U.S.A.	L85	Gilbert 1998
ISZZ	See ZMB.	Germany		F&E
ITAH	Instituto Tecnológico Agropecuario de Hidalgo, Huejutla de Reyes, Hidalgo	Mexico		Daza et al. 2009
IU	Indiana University, Bloomington, Indiana; Now mostly at California Academy of Sciences (CAS-IU); also as MUI	U.S.A.		F&E
IUQ	Laboratorio de Ictiología, Departamento de Biología, Universidad del Quindío, Armenia	Colombia		F&E
IUSHM	Istanbul Üniversitesi [University of Istanbul], Faculty of Science, Hydrobiology Museum, Istanbul	Turkey		F&E
IZA	Instituto di Zoologia, Università degli Studi dell'Aquila, Aquila; Moved to Naples University, Department of Zoology (Fricke & Eschmeyer 2010)	Italy	L85	F&E
IZAB	Institute of Zoology, Azerbaijan National Academy of Sciences, Baku; also as ZIAZ, IZA	Azerbaijan		F&E
IZAC	Instituto de Zoología, Academia de Ciencias República de Cuba, Habana	Cuba	L85	F&E
IZPAN	Muzeum I Instytut Zoologii (formerly Instytut Zoologiczny), Polska Akademia Nauk, Warsaw	Poland		F&E http://www.asih.org/codons.pdf
IZUA	Instituto de Zoología "Ernst F. Filian", Facultad de Ciencias, Universidad Austral de Chile (Campus Isla Teja), Valdivia	Chile	L85	F&E
IZUC	Instituto de Zoología, Universidad de Concepción, Concepción; apparently obsolete, replaced by MZUC	Chile	L85	Lavenberg & Yañez 1972
IZUCS	Collezioni Zoologiche (formerly Instituto di Zoologia), Università di Cagliari, Cagliari, Sardinia	Italy	L85	F&E
JFBM	[James Ford] Bell Museum of Natural History, University of Minnesota, Minneapolis, Minnesota	U.S.A.	L85	F&E
JNMP	Národní Museum, Natural History Museum, Praha; also as NMP	Czech Republic		F&E
JNU	Department of Biology, Jinan University, Guangzhou	China		F&E
JPHM	Jean P. Haydon Museum, Pago Pago	American Samoa		L&G
JS	Freshwater Fisheries Research Institute of Jiangsu Province, Nanjing, Jiangsu Province; perhaps change to FFRJJP (Fricke & Eschmeyer 2010)	China		F&E
KAUM	Kagoshima University Museum, Korimoto, Kagoshima; KAUM-I (ichthyology), KAUM-II (ichthyological images), KAUM-VE (vertebrates except fishes, including herps)	Japan		F&E H. Motomura pers. comm. 18 Sep 2010
KFRI	Kerala Forest Research Institute, Peechi, Kerala	India		F&E
KFRS	Kanudi Fisheries Research Station, National Fisheries Authority, Konedobu [abandoned, salvage at UPNG]; previously known as Department of Fishery & Marine Resources; also as KFRI	Papua New Guinea	L85 L&G	F&E
KFW	Kentucky Department of Fish & Wildlife Resources, Frankfort, Kentucky	U.S.A.	L85	
KHMM	Kulturhistorisches Museum, Magdeburg	Germany	L85	F&E
KIEL	Christian-Albrechts-Universität zu Kiel, Mathematisch-Naturwissenschaftliche Fakultät, Zoologisches Institut und Museum, Kiel, Schleswig-Holstein	Germany		F&E
KIFB	Korean Institute of Freshwater Biology, Seoul; Some specimens moved to SMU.	South Korea		F&E
KIU	Seoul National University [formerly Keijo Imperial University; Kyöngsöng University], Preparatory Department, Seoul; Historical collections destroyed in Korean War, 1950-1953	South Korea		F&E
KIZ	Kunming Institute of Zoology, Chinese Academy of Sciences, Kunming, Yunnan	China	L85	F&E
KM	Krakow Museum of Natural History, Krakow	Poland	L85	
KMAG	Keswick Museum and Art Gallery, Keswick, Cumbria, England	U.K.		F&E

KMK	Amathole Museum [formerly Kaffrarian Museum], King William's Town	South Africa	L85	
KMNH	Kitakyushu Museum of Natural History and Human History, Kitakyushu, Fukuoka	Japan	L85	
KMPC	Kushimoto Marine Park Center, Kushimoto-chu, Nishimuro-gun, Wakayama Prefecture, Kii Peninsula	Japan		F&E
KNP	Kruger National Park, Skukuza, Transvaal	South Africa	L85	
KPM	Kanagawa Prefectural Museum of Natural History, Odawara, Kanagawa; also as KPM-NI	Japan		F&E
KPM-NI	See KPM.	Japan		F&E
KSJS	Kochi Nishi Senior High School, Kamobe, Kochi Prefecture; Yamakawa private collection assigned BSKU catalog numbers 50000-79999 (Fricke & Eschmeyer 2010)	Japan	L85	F&E
KU	University of Kansas Natural History Museum, Lawrence, Kansas	U.S.A.	L85	F&E
KUMF	Kasetsart University, Faculty of Agriculture, Museum of Fisheries, Bangkok; separate from RLIKU	Thailand	L85	F&E
KUVP	University of Kansas Museum of Vertebrate Paleontology	U.S.A.		Gilbert 1998
LACM	Natural History Museum of Los Angeles County, Los Angeles, California	U.S.A.	L85	F&E
LACMNH	See LACM.	U.S.A.		F&E
LARREC	Living Aquatic Resources Research Center, National Agriculture and Forestry Research Institute, Ministry of Agriculture and Forestry, Vientiane	Laos		F&E
LARRI	Living Aquatic Resources Research Institute, Vientiane	Laos		F&E
LBN	See MZB.	Indonesia		F&E
LBP	Laboratório de Biologia e Genética de Peixes, Departamento de Morfologia da Universidade Estadual Paulista, Botucatu, São Paulo; incorrectly as LPB in Fricke & Eschmeyer 2010	Brazil		Benine et al. 2007
LBRP	Laboratório de Biodiversidade de Recursos Pesqueiros, Universidade Federal do Rio de Janeiro; Now in MNRJ	Brazil		F&E
LBT	Instituto Nacional de Investigaciones Biológico Pesqueras, Laboratorio Biológico, Mexico City	Mexico		Gilbert 1998
LCM	Instituto de Ciências do Mar (formerly Laboratório de Ciências do Mar), Universidade Federal do Ceará, Fortaleza	Brazil	L85	
LDHRN	Natural History Department, Horniman Museum & Public Park Foundation, London	U.K.		http://www.asih.org/codons.pdf
LEMUR	Laboratoire d'Ecologie Marine, Université de La Réunion, Saint-Denis, La Réunion	France		F&E
LFBU	Laboratory of Fishery Biology, Kyushu University [formerly Kyushu Imperial University], Fukuoka, Kyushu	Japan		F&E
LHC	Laboratoire d'Hydrobiologie et d'Aquaculture, Faculté des Sciences Agronomiques, Université d'Abomey Calavi, Cotonou	Bénin		F&E
LHUC	Laboratoire d'Hydrobiologie, UFR Biosciences, Université de Cocody, Abidjan	Côte d'Ivoire		F&E
LIAIP	Laboratory of Ichthyology, Akasaka Imperial Palace, Tokyo; obsolete, changed to BLIP in 2008-09 (Fricke & Eschmeyer 2010)	Japan		F&E
LICPP	Laboratory of Ichthyology, The Crown Prince's Palace; changed to BLIP in 2008/2009 (Fricke & Eschmeyer 2010)	Japan	L85	F&E
LIG	See LJG.	Austria		F&E
LIRP	Laboratório de Ictiologia de Ribeirão Preto, Faculdade de Filosofia, Letras e Ciências Humanas, Universidade de São Paulo, São Paulo	Brazil		F&E
LISDEBE	Laboratório de Ictiologia Sistemática, Departamento de Ecologia e Biologia Evolutiva (DEBE), Universidade Federal de São Carlos, São Carlos	Brazil		F&E
LIVCM	World Museum [previously as Merseyside County Museum], Liverpool, England	U.K.	L85	
LJG	Landesmuseum Joanneum, Graz, Steiermark; also as LIG	Austria		F&E
LMB	Moravské zemské muzeum, Brně [=Brno]	Czech Republic	L85	
LMM	See MHNMM.	Mozambique		F&E
LNEP-UFF	Laboratório de Biologia do Nécton e Ecologia Pesqueira, Universidade Federal Fluminense, Rio de Janeiro	Brazil		F&E
LNHNY	New York Academy of Sciences [formerly Lyceum of Natural History], New York, New York	U.S.A.		F&E
LNHSM	Lingnan Natural History Survey and Museum, Lingnan Museum, Lingnan, Guangzhou	China		F&E

LNK	Landessammlungen für Naturkunde Karlsruhe; now Staatliche Museum für Naturkunde Karlsruhe (SMNK)	Germany	L85	
LOC-DBEZ-UFR	Laboratório do Oceano do Departamento de Botânica, Ecologia e Zoologia da Universidade Federal do Rio Grande do Norte; complete as LOC-DBEZ-UFRN	Brazil		F&E
LON	Lembaga Oseanologie Nasional [alternatively National Oceanological Institute], Jakarta; also as LON NCIP	Indonesia		F&E
LON NCIP	See LON.	Indonesia		F&E
LS	Linnean Society of London, London, England; also as LSL	U.K.	L85	F&E
LSJUM	See SU.	U.S.A.		F&E
LSL	Linnean Society of London, London, England; also as LS	U.K.		F&E
LSUMZ	Louisiana Museum of Natural History [formerly Louisiana State University, Museum of Zoology (-1999)], Baton Rouge, Louisiana	U.S.A.	L85	F&E
LSUS	Louisiana State University Museum of Life Sciences [previously Museum of Zoology], Shreveport, Louisiana	U.S.A.	L85	
LTU	Louisiana Tech University Museum of Vertebrate Zoology, Ruston	U.S.A.	L85	
LUSMZ	Louisiana State University, Museum of Zoology, University Station, Baton Rouge, Louisiana	U.S.A.		http://www.asih.org/codons.pdf
LV	Laboratorio de Vigo, Vigo	Spain	L85	
LZUT	Laboratory of Zoology, Aristotle University of Thessaloniki; also as DZAUT	Greece	L85	F&E
MA	Awash National Park	Ethiopia	L85	
MAC	See MAC-APU.	Venezuela		F&E
MAC-APU	Ministerio de Agricultura y Cría, Instituto Nacional de Investigaciones Agrícolas (INIA), Estación Experimental Apure, San Fernando de Apure; also as MAC	Venezuela		F&E
MAC-PAY	Ministerio de Agricultura y Cría, Instituto Nacional de Investigaciones Agrícolas (INIA), Estación Experimental Amazonas, Puerto Ayacucho	Venezuela		F&E
MACLPI	Ministerio de Agricultura y Cría, Sección de Pesca Interior y Piscicultura, Caracas	Venezuela		F&E
MACN	Museo Argentino de Ciencias Naturales "Bernardino Rivadavia" [formerly Museo Nacional de Argentina], Buenos Aires; also as MACN-ICT (Colección Nacional de Ictiología)	Argentina	L85	F&E
MAD	Madras Museum, Madras, Tamil Nadu	India	L85	L&G
MAK	Museum A. Koenig (personal collection)	Germany		F&E
MAMU	University of Sydney, Macleay Museum, Sydney, New South Wales; also as MU, MMUS; Types specimens of fishes at AMS.	Australia	L85	F&E
MAN	Muséum-Aquarium de Nancy, Institut de Zoologie, Université de Nancy [formerly L'Ancienne Université, among others], Nancy; also as MZUVN, MZN	France		F&E
MAPA	Museu Anchieta de Ciências Naturais, Colégio Anchieta, Porto Alegre, Rio Grande do Sul	Brazil	L85	F&E
MB	Museu Bocage [alternatively Museu Nacional de História Natural], Universidade de Lisboa, Lisboa; collection destroyed by fire in 1979	Portugal	L85	F&E
MBI	Marine Biomedical Institute, University of Texas, Galveston, Texas	U.S.A.	L85	
MBLUZ	Museo de Biología de la Universidad del Zulia, Maracaibo, Zulia	Venezuela		Pérez & Vilorio 1994
MBML	Museu de Biologia Professor Mello Leitão, Coleção Zoológica, Santa Teresa, Espírito Santo	Brazil		F&E Ferreira et al. 2010
MBSH	Marine Biological Station Hurghada [formerly Marine Biological Station Al-Ghardaqa], National Institute of Oceanography and Fisheries (NIOF), Hurghada	Egypt		F&E
MBUCV	Museo de Biología de la Universidad Central de Venezuela, Caracas; MBUC-V (fishes)	Venezuela	L85	F&E
MBZH	Museo y Bibliotheca de la Zoología, Habana	Cuba	L85	
MCLSBB	See MCSBCN.	Spain		F&E
MCM	Museu Carlos Machado, Ponta Delgada, Azores	Portugal	L85	F&E
MCMC	Museo de Historia Natural y Cultura Ambiental [formerly Museo Nacional de Historia Natural, UNAM; alternatively Museo de Historia Natural de la Ciudad de México], Chapultepec, Mexico City; also as MNHNM	Mexico		http://www.sma.df.gob.mx/mhn/index.php?op=07habiaunavez
MCMK	Medical College Kolkata, Museum [formerly Medical College Calcutta; Medical College Museum, Calcutta], Kolkata, West Bengal; also as MCMC (occupied)	India		F&E

MCN	Museu de Ciências Naturais, Fundação Zoobotânica, Porto Alegre, Rio Grande do Sul; also as MRCN	Brazil	L85	F&E
MCNC	Museo de Ciencias Naturales, Los Caobos (Plaza Morelos), Caracas	Venezuela	L85	
MCNCH	Museo de Ciencias Naturales "Augusto G. Schulz", Chaco; Also seen as Museide Ciencias Naturales del Chaco.	Argentina		F&E
MCNG	Museo de Ciencias Naturales de UNELLEZ, Guanare, Portuguesa	Venezuela	L85	F&E
MCNI	Museo de Ciencias Naturales, Facultad de Ciencias Naturales, Universidad de Salta, Salta; also as MCMI	Argentina		F&E
MCP	Museu de Ciências e Tecnologia, Pontifícia Universidade Católica do Rio Grande do Sul, Porto Alegre, Rio Grande do Sul	Brazil	L85	F&E
MCSBCN	Museos del Collegi La Salle Bonanova de Ciencias Naturales, Barcelona; also as MCLSBB	Spain		F&E
MCSN	Museo Civico di Storia Naturale, Trieste	Italy		http://www.asih.org/codons.pdf
MCSNC	Museo Civico di Storia Naturale di Carmagnola, Carmagnola	Italy		F&E http://www.asih.org/codons.pdf
MCSNH	See MNHSC.	U.S.A.		F&E
MCVR	Museo Civico di Storia Naturale, Verona [incorrectly associated with MGAB, Romania in Fricke & Eschmeyer 2010]	Italy		F&E
MCZ	Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts; also as MCZH	U.S.A.	L85	F&E
MCZH	See MCZ.	U.S.A.		F&E
MCZR	Museo Civico di Zoologia, Comune di Roma, Roma; also as MZGZ	Italy		F&E
MD	Museo Regional do Dundo, Chitato, Luanda-Norte	Angola	L85	F&E
MDUG	Museo Alfredo Dugès, Universidad de Guanajuato, Guanajuato	Mexico	L85	
MDZAU	Museum Department of Zoology, Faculty of Science, Andhra University, Visakhapatnam	India		F&E
MEPAN	Museum of Evolution [Muzeum Ewolucji], Paleobiological Institute, Polish Academy of Sciences, Warszawa	Poland		F&E
MEPN	Museo de Biología, Escuela Politécnica Nacional, Quito; Also as Museo de Biología de la Escuela	Ecuador		F&E
MFA	Museo Provincial de Ciencias Naturales "Florentino Ameghino", Santa Fé; also as MFA-ZV	Argentina		F&E
MFA-ZV	See MFA.	Argentina		F&E
MFLB	Marine Fisheries Laboratory, Department of Fisheries, Bangkok [formerly Siam Department of Fisheries, Thailand Bureau of Fisheries]	Thailand		F&E
MFP	Museo Felipe Poey, Habana	Cuba	L85	
MFRU	Malawi Fisheries Research Unit, Ministry of Forestry, Fisheries and Environmental Affairs; Also as MFU.	Malawi		F&E
MFSN	Museo Friulano di Storia naturale, Udine	Italy		http://www.asih.org/codons.pdf
MG	Musee Guimet; See MHNL.	France	L85	F&E
MGAB	Muzeul de Istorie Naturala 'Grigore Antipa', Bucharest; Also as NHMB, MCVR, MHNGA, MINB	Romania	L85	F&E
MGH	Museum Godeffroy (1861-1885), Hamburg; Collections sold to various museums, e.g. ZMH, BMNH, SMNS	Germany		F&E
MGHNL	Musée Guimet d'Histoire naturelle de Lyon; replaced by MHNL	France		F&E
MGHSJ	Matuyama Girl's High School, Matuyama City	Japan		F&E
MHN-UNC	See MHNUNC.	Colombia		F&E
MHNB	Muséum d'Histoire naturelle, Bale; deleted in Leviton & Gibbs 1988 (duplicate for NMBA, Naturhistorisches Museum Basel)	Switzerland	L85 L&G	
MHNBX	Muséum d'histoire naturelle, Bordeaux	France		http://www.asih.org/codons.pdf
MHNC	Musée d'histoire naturelle, La Chaux-de-Fonds; also as MHNLCDF (possibly obsolete)	Switzerland	L85	
MHNCI	Museu de História Natural Capão da Imbuia, Curitiba, Paraná	Brazil		F&E Ferreira et al. 2010 (as MHNCL, presumably a misspelling)
MHNG	Muséum d'histoire naturelle, Genève; also as MNG	Switzerland	L85	F&E
MHNI	Museu de História Natural e Jardim Botânico, Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais	Brazil		F&E
MHNJP	Museu de Historia Natural "Javier Prado", Universidad Nacional Mayor de San Marcos, Lima; replaced by MUSM	Peru	L85	F&E

MHNL	Musée d'Histoire Naturelle [formerly Musée Guimet d'Histoire Naturelle de Lyon], Lyon; also as MGHNL (obsolete), MG	France			F&E
MHNLCDF	Musée d'histoire naturelle, La Chaux-de-Fonds; also as MHNC (presumably more current)	Switzerland			http://www.asih.org/codons.pdf
MHNLR	Museum d'Histoire Naturelle, La Rochelle	France	L85		F&E
MHNLS	Museo de Historia Natural La Salle, Fundación La Salle de Ciencias Naturales [formerly Museo de Ciencias Naturales], Caracas; replacement for SCN; also as MNHLS	Venezuela			F&E
MHNM	Museo Nacional de Historia Natural y Antropología (MUNHINA) [formerly Museo de Historia Natural de Montevideo], Montevideo; suggested replacement for MNHN	Uruguay	L85		F&E
MHNMM	Museu de Historia Natural Maputo [formerly Lourenço Marques Museum; Museu Álvaro de Castro], Maputo; also as LMM	Mozambique			F&E
MHNN	Museum d'Histoire Naturelle de Neuchâtel, Neuchâtel [MHNN may have been alternatively applied to Muséum de Historia Naturelle de Nantes by Kottelat et al. 1993]	Switzerland	L85	L&G	F&E
MHNNICE	Museum d'Histoire Naturelle de Nice, La Zoothèque, Vertébrés Marins, Nice	France			F&E
MHNPN	Museu de História Natural, Prefeitura Municipal de Pirassununga, Pirassununga, São Paulo	Brazil			F&E
MHNRUN	Muséum d'Histoire Naturelle, Saint-Denis; also as MHN RUN	France			F&E
MHNUC	Museo de Historia Natural de la Universidad de Cauca, Popayán; also as UCP (Leviton et al. 1988)	Colombia			F&E
MHNUNC	Departamento de Ictiología, Museo de Historia Natural, Departamento de Biología, Facultad de Ciencias, Universidad Nacional de Colombia, Bogotá; also as MHN-UNC	Colombia			F&E
MHNV	Museo de Historia Natural de Valparaiso, Valparaiso	Chile	L85		
MHUA	Museo de Herpetología de la Universidad de Antioquia, Medellín	Colombia			Daza et al. 2009
MHV	Musée National de Burkina Faso, Ministère de la Culture, des Arts et du Tourisme [formerly Musée de Haute Volta (Upper Volta)], Ouagadougou	Burkina Faso	L85		F&E
MIKU	Marine Biological Institute, Kyoto University; Specimens now at FAKU.	Japan			F&E
MIMB	Museum of A. V. Zhirmunsky, Institute of Marine Biology, Far East Branch, Vladivostok	Russia			F&E
ML	Prirodoslovni muzej Slovenije (Slovenian Museum of Natural History), Ljubljana; also as MLSU	Slovenia	L85		Ursenbacher et al. 2006
MLP	Museo de La Plata, La Plata; distinct from ILPLA	Argentina	L85		F&E
MLS	Museo de Historia Natural [formerly del Instituto] de La Salle, Bogotá	Colombia	L85		Villa-Navarro et al. 2006
MLS	Marine Laboratory Sydney. Now at CSIRO.	Australia			F&E
MLSU	St. Petersburg (formerly Leningrad) State University, Zoological Museum, St. Petersburg	Russia	L85		
MLU	Martin-Luther-Universität Halle-Wittenberg, Institut für Zoologie und Zoologische Sammlung	Germany	L85		
MLZ	Moore Laboratory of Zoology, Department of Biology, Occidental College, Los Angeles, California; also as OC	U.S.A.			http://departments.oxy.edu/mlz/
MM	Museo del Mar, Bogotá	Colombia			F&E
MMB	Musée de la Mer, Biarritz	France	L85	L&G	
MMB	The Moravian Museum [alternatively Moravské Zemské Muzeum or Mährische Landesmuseum; formerly Mährisches Museum], Ministry of Culture of the Czech Republic, Brno	Czech Republic			F&E
MMF	Estação de Biologia Marinha do Funchal, Funchal Câmara Municipal [formerly Museu Municipal do Funchal], Funchal	Madeira	L85		F&E
MMG	Casa Museo Payán, Parque Nacional Natural Goergona, Isla de Gorgona; Also as MMGPE	Colombia			F&E
MMGPE	See MMG.	Colombia			F&E
MMK	McGregor Museum, Kimberley, Cape Province	South Africa	L85		
MMM	Museo Marino de Margarita, Margarita	Venezuela			F&E
MMNH	Muséum d'histoire naturelle, Marseille	France	L85		
MMNHN	Nanjing Museum, Chinese Academy of Sciences [formerly Metropolitan Museum of Natural History Nanjing, Academia Sinica], Nanjing	China			F&E
MMNHS	Macedonian Museum of Natural History, Skopje	Macedonia			F&E
MMNS	Mississippi Museum of Natural Science [formerly Fannye A. Cook Memorial Museum], Jackson, Mississippi; some Cook fish specimens at FMNH, USNM, AMNH	U.S.A.	L85		http://mshistory.k12.ms.us/articles/313/fannye-cook-pioneer-conservationist
MMSU	Replaced by ZMMGU (Leviton & Gibbs 1988); Currently as ZMMU	Russia	L85	L&G	F&E
MMTT	Muze-ye Melli-ye Tarikh-i Tabi'i, Tehran	Iran	L85		F&E

MMUS	See MAMU.	Australia		F&E
MN	See MNRJ.	Brazil		F&E
MNA	Museum of Northern Arizona, Flagstaff, Arizona	U.S.A.		Gilbert 1998
MNCN	Museo Nacional de Ciencias Naturales, Madrid	Spain	L85	F&E
MNCR	Museo Nacional, San Jose	Costa Rica	L85	
MNH	Magyar Természettudományi Múzeum [Magyar Nemzeti Múzeum or Hungarian National Museum], Budapest	Hungary	L85	F&E
MNHLS	See MHNLS.	Venezuela		F&E
MNHN	See MHNM (replacement suggested by Fricke & Eschmeyer 2010).	Uruguay		F&E
MNHN	Muséum National d'Histoire naturelle, Paris	France	L85	F&E
MNHNC	Museo Nacional de Historia Natural, Zoología, Santiago; Also as MNHNCH.	Chile	L85	F&E
MNHNCH	See MNHNC.	Chile		F&E
MNHNLU	Musée National d'Histoire Naturelle, Section Zoologie des Vertébrés	Luxembourg		F&E
MNHNM	Museo de Historia Natural y Cultura Ambiental [formerly Museo Nacional de Historia Natural, UNAM; alternatively Museo de Historia Natural de la Ciudad de México], Chapultepec, Mexico City; also as MCMC	Mexico	L85	F&E http://www.sma.df.gob.mx/mhn/index.php?op=07habiaunavez
MNHNP	Museo Nacional de Historia Natural del Paraguay, Asuncion	Paraguay	L85	F&E
MNHNSD	Museo Nacional de Historia Natural, Santo Domingo	Dominican Republic	L85	F&E
MNHP	Národní muzeum [National Museum], Prague	Czech Republic	L85	
MNHSC	Museum of Natural History and Science, Cincinnati Museum Center at Union Terminal [formerly Museum, Cincinnati Society of Natural History], Cincinnati, Ohio; also as MCSNH	U.S.A.		F&E
MNHV	The Natural History Museum, Varna	Bulgaria		F&E
MNHW	See UW.	U.S.A.		F&E
MNKP	Museo de Historia Natural Noel Kempff Mercado, Santa Cruz	Bolivia		F&E
MNRJ	Museo Nacional, Universidade Federal do Rio de Janeiro, Rio de Janeiro; also as MN, UFRJ	Brazil	L85	F&E
MNRT	Ministry of Natural Resources, Toronto	Canada	L85	
MNS	See SMNS.	Germany		F&E
MNSB	Hungarian Museum of Natural Science, Budapest	Hungary		F&E
MNUL	Museum für Natur und Umwelt, Lübecker Museen, Hansestadt Lübeck, Schleswig-Holstein	Germany		F&E
MOFUNG	See MOFURG.	Brazil		F&E
MOFURG	Museu Oceanográfico "Professor Eliézer de Carvalho Rios", Fundação Universidade Federal do Rio Grande, Rio Grande, Rio Grande do Sul; also as MOFUNG	Brazil		F&E
MOM	Musée Oceanographique de Monaco	Monaco	L85	F&E
MOSU	Morehead State University, College of Science and Technology, Department of Biological & Environmental Sciences, Morehead Research Fish Collection, Morehead, Kentucky	U.S.A.		F&E
MOVI	Museu Oceanográfico Univali, Peixes, Universidade do Vale do Itajaí, [formerly Museu Oceanográfico do Vale do Itajaí (-2008), Itajaí, Santa Catarina	Brazil		F&E
MPEG	Museu Paraense "Emilio Goeldi", Zoologia, Belém, Pará	Brazil	L85	F&E
MPM	Milwaukee Public Museum, Vertebrate Zoology, Milwaukee, Wisconsin	U.S.A.	L85	
MPUJ	Museo de Pontifica Universidad de Javeriana [alternatively Museo Javeriano de Historia Natural "Lorenzo Uribe, S.J."], Bogotá; also as MUJ	Colombia		F&E
MQU	Macquarie University, Department of Biological Sciences, North Ryde, New South Wales	Australia	L85	
MRAC	Musée Royal de l'Afrique Centrale [Koninklijk Museum voor Midden Afrika], Tervuren	Belgium	L85	F&E
MRSNT	Museo Regionale di Scienze Naturali [alternatively Museum of Turin], Zoologia, Torino	Italy		F&E
MSB	Museum of Southwestern Biology, Department of Biology, University of New Mexico, Albuquerque; also as UNM	U.S.A.	L85	Gilbert 1998
MSINR	Museum, Sichuan Provincial Natural Resources Research Institute, Chengdu, Sichuan	China		F&E
MSLH	Chinese University of Hong Kong, Department of Biology, Simon F. S. Li Marine Science Laboratory, Hong Kong	China	L85	F&E
MSM	Marine Science Museum, Tokai University, Shimizu, Shizuoka Prefecture	Japan	L85	F&E
MSNC	Museo Civico di Storia Naturale di Carmagnola, Carmagnola; also as MCSNC	Italy		F&E

MSNG	Museo Civico di Storia Naturale "Giacomo Doria", Genova	Italy	L85	F&E
MSNM	Museo Civico di Storia Naturale di Milano, Milano	Italy	L85	F&E
MSNT	Museo Civico di Storia Naturale di Trieste, Trieste	Italy	L85	F&E
MSNTO	Museo Civico di Storia Naturale di Torino, Torino	Italy	L85	
MSNV	Museo Civico di Storia Naturale di Venezia, Venezia	Italy	L85	F&E
MSNVR	Museo Civico di Storia Naturale di Verona, Sezione di Zoologia, Verona	Italy	L85	F&E
MSP	Madras Snake Park, Madras, Tamil Nadu	India	L85	L&G
MSTFM	Middle School of the Third Factory Machinery, Yunnan	China		F&E
MSU	Mississippi State University, Mississippi	U.S.A.	L85	
MSUB	Montana State University, Biology Department, Bozeman, Montana	U.S.A.	L85	
MSUI	Iowa State University, University Museums, Ames, Iowa; for <i>Scorpaena nuttingi</i> Evermann & Seale (whereabouts unknown)	U.S.A.		F&E
MSUM	Michigan State University Museum, East Lansing, Michigan	U.S.A.	L85	F&E
MSUMNH	Sri Paramakalyani Centre for Environmental Sciences, Manonmaniam Sundaranar University, Museum of Natural History, Alwarkurichi, Tamil Nadu; also as SPKCES	India		F&E
MSUMZ	University of Memphis [formerly Memphis State University], Museum of Zoology, Memphis, Tennessee	U.S.A.	L85	
MT	Sea Museum–Aquarium of Pacific Research Fisheries Center and Pacific Research Institute of Fisheries and Oceanography (TINRO), Vladivostok; now probably the private collection of Dolganov.	Russia		F&E
MTD	[Staatliche] Museum für Tierkunde, Dresden, Senckenberg Naturhistorische Sammlungen, Dresden; replaces MTKD (sensu Leviton et al. 1985)	Germany		F&E http://www.asih.org/codons.pdf
MTH	Münchner Tierpark Hellabrunn A.G., München, Bayern; Old collection destroyed in 1944	Germany		F&E
MTKD	Staatliche Museum für Tierkunde, Dresden; replaced by MTD.	Germany	L85	F&E
MTUF	Tokyo University of Marine Science and Technology, Museum of Fishery Sciences [formerly Museum of Tokyo University of Fisheries], Tokyo; also as IFI	Japan	L85	F&E
MU	See MAMU.	Australia		F&E
MUDB	Memorial University, Department of Biology, St. John's, Newfoundland	Canada	L85	
MUFM	See MUMF.	India		F&E
MUFS	Department of Plant and Animal Sciences, Faculty of Agriculture, University of Miyazaki, Miyazaki	Japan		F&E
MUHNES	Museo de Historia Natural de El Salvador, San Salvador	El Salvador		Daza et al. 2009
MUI	See IU.	U.S.A.		F&E
MUJ	See MPUJ.	Colombia		http://www.biodiversitycollectionsindex.org
MUMF	Manipur University Museum of Fish, Chanchipur, Manipur; also as MUMF-Per 95 (W. Vishwanath personal collection), MUFM	India		F&E
MUNHINA	See MHNM.	Uruguay		F&E
MUS	Sabah Museum [formerly North Borneo Museum], Kota Kinabalu, Sabah; also as SBM (e.g., Ng, Martin-Smith & Ng 2000), SMEC	Malaysia		F&E
MUSM	Museo de Historia Natural, Universidad Nacional Mayor de San Marcos, Lima; also as MHNJP (obsolete)	Peru		F&E
MUT	See ZUMT.	Japan		F&E
MVEN	Museo Civico di Storia Naturale di Venezia, Venezia; also as MSNV	Italy		http://www.asih.org/codons.pdf
MVZ	Museum of Vertebrate Zoology, University of California at Berkeley, California; also as BNHM (obsolete); most of collection now at CAS	U.S.A.	L85	F&E
MW	Museum Wiesbaden, Naturwissenschaftliche Sammlungen, Wiesbaden, Hessen	Germany		F&E
MWSU	Midwestern State University, Department of Biology Collection, Wichita Falls, Texas	U.S.A.		L&G
MZB	Bidang Zoologi, Pusat Penelitian Biologi, Lembaga Ilmu Pengetahuan Indonesia (LIPI) [formerly Museum Zoologicum Bogoriense], Bogor; also as LBN	Indonesia	L85	F&E
MZC	Museu Zoológico da Universidade de Coimbra, Coimbra	Portugal	L85	

MZFC	Museo de Zoología "Alfonso L. Herrera" de la Facultad de Ciencias de la Universidad Nacional Autónoma de México, Mexico City	Mexico			Daza et al. 2009
MZGZ	Museo di Zoologia del Giardino Zoologico, Rome; See MCZR.	Italy	L85		F&E
MZHZ	Finnish Museum of Natural History, Zoological Museum, University of Helsinki, Helsinki	Finland			F&E http://www.asih.org/codons.pdf
MZMLC	Museum of Zoology, Mayai Lambi College, Manipur	India			F&E
MZLN	See MAN.	France			F&E
MZP	Museu e Laboratório Zoológico, Instituto de Zoologia e Estação de Zoologia Marítima do Dr. Augusto Nobre [Museu de Zoologia Augusto Nobre, Museu de História Natural], Universidade de Porto, Porto	Portugal	L85		
MZP	See MZUSP.	Brazil			F&E
MZPA	Museo di Zoologia, Università di Palermo [Museo Zoologia Pietro Doderlein], Palermo; also as MZUP	Italy			http://www.asih.org/codons.pdf
MZS	Musée Zoologique de la ville de Strasbourg, Université de Strasbourg [includes formerly independent Université Louis-Pasteur], Strasbourg; also as MZUS	France			F&E http://www.asih.org/codons.pdf
MZSP	See MZUSP.	Brazil			F&E
MZTG	Museo de Zoologia, Tuxtla Gutiérrez, Chiapas	Mexico	L85		
MZUA	Zoological Museum, University of Athens, Athens	Greece	L85		
MZUABCS	Museo de Zoología, Universidad Autónoma de Baja California Sur	Mexico			F&E
MZUB	Museo di Zoologia dell'Università di Bologna, Bologna	Italy			F&E
MZUC	Museo de Zoología de la Universidad de Concepción, Concepción; replacement for IZUC	Chile			Randall & Meléndez 1987; Correa et al. 2008
MZUEL	Museu de Zoologia, Universidade Estadual de Londrina, Paraná	Brazil			F&E
MZUF	Museo di Storia Naturale di Firenze, Sezione di Zoologia "La Specola", Firenze [=Florence]	Italy	L85		F&E
MZUFBA	Museu de Zoologia, Universidade Federal da Bahia, Salvador; also as UFBA	Brazil			F&E A. Carvalho-Filho pers. comm. 28 Sep 2010
MZUL	See ZMUL.	Sweden			F&E
MZULG	Université de Liège, L'Aquarium "Dubuisson" et le Musée de Zoologie, Liège	Belgium			F&E
MZUP	Museo di Zoologia, Università di Palermo [Museo Zoologia Pietro Doderlein], Palermo; also as MZPA	Italy	L85		
MZUS	Musée Zoologique de la ville de Strasbourg, Université de Strasbourg [includes formerly independent Université Louis-Pasteur], Strasbourg; see also MZS	France	L85		
MZUSP	Museu de Zoologia da Universidade de São Paulo, São Paulo; also as MZSP, MSP (both obsolete)	Brazil	L85		F&E
MZUT	Museo di Zoologia, Università di Torino, Torino [=Turin]	Italy	L85		F&E
MZUTH	Museum of Zoology, Aristotle University, Thessaloniki; also as ZMUT (abbreviation occupied)	Greece			F&E
MZUVN	See MAN.	France			F&E
MZYU	Museum of Zoology, Department of Biology, Faculty of Science, Yunnan University [formerly Private University of the Eastern Land (1922-1934)], Kunming, Yunnan; also as YU	China			F&E
NARA	National Aquatic Resources Research and Development Agency, Colombo	Sri Lanka			F&E
NBM	New Brunswick Museum, Saint John, New Brunswick	Canada	L85	L&G	
NCIP	Pusat Penelitian dan Pengembangan Oseanologi, Lembaga Ilmu Pengetahuan Indonesia (LIPI), Jakarta, Java; also as Lembaga Oseanologi Nasional (Leviton et al. 1985); also as NCIV	Indonesia	L85		F&E
NCIV	See NCIP.	Indonesia			F&E
NCMR	Hellenic [formerly National] Centre for Marine Research, Institute of Inland Waters, Anavyssos	Greece			F&E
NCSM	North Carolina Museum of Natural Sciences [formerly North Carolina State Museum], Raleigh, North Carolina	U.S.A.	L85		F&E
NEMS	Northeastern Missouri State University, Department of Zoology, Kirksville, Missouri	U.S.A.	L85		
NEW	University of Newcastle, Newcastle, New South Wales	Australia	L85		
NGI	See NIGLAS.	China			F&E
NHM	Natural History Museum (1975-), Institute of Science and Technology, Tribhuvan University, Swayambhu, Kathmandu; used in herpetology, see also ZICT (ichthyology, possibly obsolete)	Nepal			Kuch et al. 2005; TU_today_2008.pdf
NHM	See BMNH.	U.K.			F&E
NHMB	See MGAB.	Romania			F&E
NHMG	Naturhistoriska Riksmuseet; replaced by GNM	Sweden	L85	L&G	F&E

NHMGZAR	Natural History Museum, Guangxi Zhuang Autonomous Region, Nanning	China		F&E
NHMI	Natural History Museum and Institute, Port Louis	Mauritius		F&E
NHMR	Museum of Natural History, Institute of Natural History, Reykjavik; also as IMNH	Iceland	L85	F&E
NHRM	See NRM.	Sweden	L85 L&G	F&E
NIFI	National Inland Fisheries Institute, Fish Taxonomy Division, Bangkok	Thailand	L85	F&E
NIG	See NIGLAS.	China		F&E
NIGL	See NIGLAS.	China		F&E
NIGLAS	Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences [formerly Academia Sinica, Geographic Institute of China (1940-1953)], Nanjing; also as NIG, NIGL, NGI	China		F&E
NIPR	National Institute for Polar Research, Tokyo	Japan		L&G
NIU	Northern Illinois University, Dekalb, Illinois	U.S.A.	L85	
NIWA	National Institute of Water and Atmospheric Research, Christchurch	New Zealand		F&E
NKMC	National Kweiyang Medical College, Division of Biology, Kweiyang, Kweichow	China		F&E
NLU	University of Louisiana at Monroe [formerly Northeast Louisiana University], Museum of Natural History [formerly Zoology], Monroe, Louisiana; also as NLM	U.S.A.	L85	F&E
NMB	See SNMBR (Staatliches Naturhistorisches Museum, Braunschweig) and NMBA (Naturhistorisches Museum Basel)	Germany		F&E
NMBA	Naturhistorisches Museum Basel, Basel; also as NMB	Switzerland	L85	F&E
NMBE	Naturhistorisches Museum der Burgergemeinde Bern, Bern	Switzerland	L85	F&E
NMBO	National Museum, Bloemfontein, Orange Free State	South Africa	L85	
NMBZ	See QVMS.	Zimbabwe		F&E
NMC	Canadian Museum of Nature [formerly National Museum of Natural Sciences, National Museums of Canada], Ottawa; same as CMNFI	Canada	L85	F&E
NMFSH	NOAA [National Marine] Fisheries Service, Pacific Islands Fisheries Science Center [formerly Bureau of Commercial Fisheries, Honolulu (BCFH)], Honolulu, Hawaii; Much of BCFH collection transferred to BPBM	U.S.A.	L85 L&G	F&E http://www.onefish.org
NMH	Naturhistorisches Museum zu Hamburg; replaced by ZMH, Zoological Museum Hamburg	Germany		F&E
NMI	National Museum of Ireland, Natural History Division, Dublin	Ireland	L85	F&E
NMK	National Museums of Kenya, Directorate of Research and Collections, Zoology Department, Nairobi	Kenya	L85	F&E
NML	Naturkundemuseum Leipzig, Leipzig, Sachsen	Germany		F&E
NMMB	National Museum of Marine Biology & Aquarium, Pingtung; also as TMF, NMMBP, NMMB P	Taiwan		F&E
NMMBP	See NMMB.	Taiwan		F&E
NMMH	North Manchurian Museum, Harbin, Manchuria	China	L85	F&E
NMMST	See NTOU.	Taiwan		F&E
NMN	National Museum of Namibia [formerly Staatsmuseum Windhoek], Natural History, Department of Lower Vertebrates, Windhoek	Namibia		F&E
NMND	National Museum of Natural History, New Delhi; replacement for NMNH (sensu Leviton et al. 1985)	India		L&G
NMNH	National Museum of Natural History, New Delhi; replaced by NMND (Leviton & Gibbs 1988)	India	L85 L&G	F&E
NMNHS	National Museum of Natural History, Bulgarian Academy of Sciences, Sofia; also as NZMS (sensu Leviton et al. 1985)	Bulgaria		F&E
NMNZ	Museum of New Zealand Te Papa Tongarewa [formerly Colonial Museum, Dominion Museum, National Museum of New Zealand], Wellington; also as NMNZ P. (fishes)	New Zealand	L85	F&E
NMP	Natal Museum (alternative name available in isiZulu language), Pietermaritzburg, Natal; also as NMSA	South Africa	L85	F&E
NMP/NPB	See EKZNW.	South Africa		F&E
NMS	National Museum of Singapore; collections now at ZRC	Singapore	L85	F&E
NMSA	See NMP.	South Africa		F&E
NMSL	National Museum of Sri Lanka, Colombo; also as CMS	Sri Lanka		F&E
NMSU	New Mexico State University, University Park, New Mexico	U.S.A.	L85	

NMSZ	National Museums of Scotland [formerly Royal Scottish Museum (-1985)], Edinburgh, Scotland	U.K.		F&E
NMV	Museum Victoria [formerly National Museum of Victoria], Melbourne, Victoria; fishes include catalog numbers preceded by letter "A" (e.g., A2345) as well as R series and straight numerical system	Australia	L85	F&E
NMW	Naturhistorisches Museum, Wien [=Vienna]	Austria	L85	F&E
NMWZ	National Museum of Wales, Department of Zoology, Cardiff, Wales	U.K.	L85	
NMZB	Natural History Museum of Zimbabwe [previously National Museum], Bulawayo	Zimbabwe	L85	L&G
NMZB-QVMS	Natural History Museum of Zimbabwe, Queen Victoria Memorial Museum collections centralized to NMZB, Bulawayo	Zimbabwe		L&G
NMZB-UM	Natural History Museum of Zimbabwe, Umtali Museum (UMZ) collections centralized to NMZB, Bulawayo	Zimbabwe		L&G
NMZL	National Museum of Zambia, Livingstone	Zambia	L85	
NOAS	New Orleans Academy of Science, New Orleans, Louisiana	U.S.A.	L85	
NOCS	National Oceanography Centre, Southampton, University of Southampton and Natural Environment Research Council, England [formerly Institute of Oceanographic Sciences (IOS)]	U.K.		F&E
NOI	See IOCAS.	China		F&E
NPIB	Northwest Plateau Institute of Biology, Chinese Academy of Sciences, Xining, Qinghai	China	L85	F&E
NPM	Núcleo em Ecologia e Desenvolvimento Sócio-Ambiental de Macaé (NUPEM), Universidade Federal do Rio de Janeiro (UFRJ)	Brazil		F&E
NRIBAS	National Research Institute of Biology [formerly Biological Laboratory, Museum], Chinese Academy of Sciences, Nanjing, Jiangsu	China		F&E
NRM	Naturhistoriska Riksmuseet, Department of Vertebrate Zoology, Stockholm; Replaces NHRM (sensu Leviton et al. 1985); Also seen as SMNH, NRMS	Sweden		L&G F&E
NRS/ZSI	Northern Regional Station, Zoological Survey of India, Dehradun, Uttarakhand; also as ZSI/NRS	India		F&E
NSMC	Nova Scotia Museum, Halifax, Nova Scotia	Canada	L85	
NSMT	National Museum of Nature and Science [previously as National Science Museum and as Tokyo Zoological Museum (TZM)], Tokyo	Japan	L85	F&E
NSYSU	National Sun Yat-Sen University, Institute of Marine Biology, Kaohsiung; See also NSYU	Taiwan		L&G F&E
NSYU	National Sun Yat-Sen University, College of Science, Department of Biological Science, Kaohsiung; See also NSYSU	Taiwan		F&E
NTM	Museums and Art Galleries of the Northern Territory [formerly Northern Territory Museum of Arts & Sciences], Darwin	Australia	L85	F&E
NTNUB	National Taiwan Normal University	Taiwan	L85	
NTOU	National Taiwan Ocean University, College of Life Sciences, Institute of Marine Biology, Keelung; see also TOU-AE and NMMST (questionably same collection)	Taiwan		F&E
NTUM	National Taiwan University, Institute of Zoology, Taipei	Taiwan	L85	F&E
NUFES	Nagasaki University Fisheries Experimental Station, Nagasaki	Japan	L85	
NUMZ	Nankai University, College of Environmental Science and Engineering, Department of Environmental Science, Museum of Zoology, Tianjin	China		F&E
NUP	Coleção Ictiológica do Núcleo de Pesquisas em Limnologia, Ictiologia e Aqüicultura, Universidade Estadual de Maringá, Paraná; see also NUPELIA	Brazil		F&E
NUPEC	Núcleo de Pesquisa e Estudo em Chondrichthyes, Universidade Católica do Santos, Santos	Brazil		F&E
NUPELIA	Núcleo de Pesquisas em Limnologia, Ictiologia e Aqüicultura, Universidade Estadual de Maringá, Maringá, Paraná; also as NUP	Brazil		F&E
NUSMBS	Niigata University, Faculty of Science, Sado Marine Biological Station, Niigata	Japan	L85	F&E
NYSM	New York State Museum [formerly Collection], Cultural Education Center, Albany, New York	U.S.A.	L85	F&E
NYZS	New York Zoological Society [formerly State Collection], New York; Some specimens now at AMNH, CAS and USNM.	U.S.A.		F&E
NZMS	National Museum of Natural History [formerly National Zoological Museum], Bulgarian Academy of Sciences, Sofia; see also NMNHS [more current]	Bulgaria	L85	

NZOI	New Zealand Oceanographic Institute [currently National Institute of Water & Atmospheric Research (NIWA)], Wellington; fishes possibly sent to NMNZ	New Zealand		F&E
OC	Occidental College, Moore Laboratory of Zoology, Los Angeles, California; also as MLZ	U.S.A.	L85	
OCM	Oberlin College, Faculty of Arts and Sciences, Department of Biology, Museum, Oberlin, Ohio	U.S.A.		F&E
ODU	Old Dominion University, Department of Biology, Norfolk, Virginia	U.S.A.	L85	
OHG	Personal collection of Orlando H. Garrido, Habana	Cuba		F&E
OIM	Oceanographic [Institute] Museum, Vien Hai Duong Hoc, Institute of Oceanography, Cau Da, Nha Trang	Vietnam		F&E
OKMNH	University of Oklahoma, Sam Noble Oklahoma Museum of Natural History [formerly Stovall Museum], Norman, Oklahoma; current, replaces UOMZ (sensu Leviton et al. 1985)	U.S.A.	L&G	E. Marsh-Matthews, pers. comm. 13 Sep 2010
OKU	Osaka Kyoiku University, Department of Arts and Sciences, Division of Natural Sciences, Osaka	Japan		F&E
OLL	Oberösterreichisches Landesmuseum, Linz, Oberösterreich	Austria		F&E
OM	Otago Museum, Dunedin	New Zealand	L85	
OM	Otago Museum, Dunedin	New Zealand		F&E
OMNH	Osaka Museum of Natural History, Laboratory of Zoology, Osaka	Japan	L85	F&E
ONUZM	Odessa National University, Zoological Museum, Odessa	Ukraine		F&E
OPM	Okinawa Prefectural Museum & Art Museum, Naha, Okinawa	Japan	L85	F&E
ORI	Oceanographic Research Institute, Durban	South Africa	L85	F&E
ORIT	University of Tokyo, Ocean Research Institute, Tokyo, Japan. Most types now at ZUMT.	Japan	L85	F&E
ORSTOM	Institut de Recherche pour le Développement [formerly Office de la Recherche scientifique et Technique d'Outre-mer]; multiple collections (e.g., Nouméa, New Caledonia; Dakar, Senegal; Trinidad, Bolivia); some collections moved to MNHN	France		F&E
OS	Oregon State University, Museum of Natural History, Corvallis, Oregon	U.S.A.	L85	
OS	Oregon State University, Faculty of Science, Museum of Natural History, Corvallis, Oregon; Also as OSU	U.S.A.		F&E
OSM	Ohio State University, Museum of Biological Diversity, Museum of Zoology, Columbus, Ohio; also as OSUM (obsolete)	U.S.A.	L85	F&E Gilbert 1998
OSU	See OS.	U.S.A.		F&E
OSUM	See OSM.	U.S.A.		F&E
OSUO	Oregon State University, School of Oceanography, Corvallis, Oregon; Most specimens transferred to OS main collection.	U.S.A.	L85	F&E
OSUS	Oklahoma State University, College of Arts and Sciences, Department of Zoology, Stillwater, Oklahoma; also as OAM, OSUMZ (both obsolete)	U.S.A.	L85	F&E Gilbert 1998
OUM	Oxford University Museum of Natural History, Zoology, Oxford University, Oxford, England	U.K.	L85	F&E
OUV	Ohio University, Vertebrate Collection, Athens, Ohio	U.S.A.	L85	
OWU	Ohio Wesleyan University, Delaware, Ohio	U.S.A.	L85	
PEM	Port Elizabeth Museum, Bayworld, Port Elizabeth	South Africa	L85	F&E
PHGM	Penlee House Gallery and Museum [formerly Penzance Museum, Penzance Natural History and Antiquarian Society], Penzance, England	U.K.		F&E
PINRO	[Knipovich] Polar Research Institute for Sea Fisheries and Oceanography, Murmansk	Russia	L&G	
PMBC	Phuket Marine Biological Centre, Phuket	Thailand		F&E
PMF	See ZZSZ	Croatia		F&E
PMR	Prirodoslovni muzej [alternatively Rijeka Museum of Natural History], Rijeka	Croatia		F&E
PNGM	National Museum and Art Gallery, Port Moresby	Papua New Guinea	L85 L&G	F&E
PNM	National Museum of the Philippines [formerly Philippine National Museum], Manila, Luzon; also as PNMI	Philippines	L85	F&E
PPSIO	P. P. Shirshov Institute of Oceanology, Oceanic Ichthyofauna Laboratory, Russian Academy of Sciences, Moscow; Same as IOM.	Russia		F&E
PRFRI	Pearl River Fishery Research Institute, Chinese Academy of Fishery Sciences [formerly Fishery Experimental Station Canton (FESC), Fish College South China Normal University (FCSCNU)], Guangzhou, Guangdong	China		F&E

PSU	Pennsylvania State University, University Park, Pennsylvania	U.S.A.	L85	F&E
PU	Princeton University, Princeton, New Jersey	U.S.A.	L85	F&E
PUM	Universita di Pisa, Pisa	Italy	L85	
QAMS	Qijing Aquatic Management Station, Qijing, Yunnan; also as YQAMS	China		F&E
QM	Queensland Museum, Centre for Biodiversity, Brisbane, Queensland; also as QMB	Australia	L85	F&E
QMB	See QM.	Australia		F&E
QP	National Parks and Wildlife Division, Queensland	Australia	L85	
QPM	Ministère du Tourisme de la Chasse et de la Pêche, Montreal, Quebec	Canada	L85	
QVM	Queen Victoria Museum & Art Gallery, Launceston, Tasmania; also as QVMT	Australia		F&E
QVMS	Queen Victoria Memorial Museum, Harare [formerly Salisbury]; deleted in Leviton & Gibbs 1988 (collections centralized in NMZB-QVMS, Natural History Museum of Zimbabwe)	Zimbabwe	L85 L&G	F&E
QVMT	Queen Victoria Museum & Art Gallery, Launceston, Tasmania	Australia	L85	
RBCM	Royal British Columbia Museum, Victoria; also as BCPM	Canada		F&E
RC	Roanoke College, Salem, Virginia	U.S.A.	L85	
RCSE	The Royal College of Surgeons of Edinburgh, Surgeon's Hall Museums, Edinburgh, Scotland	U.K.		F&E
RCSL	Royal College of Surgeons, Hunterian Museum, London, England	U.K.		F&E
RGUMF	Rajiv Gandhi University Museum of Fishes, Rono Hills, Itanagar	India		F&E
RHLCY	See HRA.	China		F&E
RHS	See HRA.	China		F&E
RIA1	Research Institute of Aquaculture no. 1 [alternatively as Research Institute for Aquaculture at Hanoi], Dinh Bang, Tu Son, Bac Ninh	Vietnam		http://www.ria1.org/fibozopa/uni/home/index.php?disp_id=7&lang=en&id_partners=3
RIA2	Research Institute of Aquaculture no. 2, Ho Chi Minh City [formerly Saigon]	Vietnam		http://www.ria1.org/fibozopa/uni/home/index.php?disp_id=7&lang=en&id_partners=4
RIA3	Research Institute of Aquaculture no. 3, Nha Trang, Khánh Hòa	Vietnam		http://www.ria3.org.vn/
RIAH	Research Institute for Aquaculture at Hanoi [alternatively Research Institute of Aquaculture no. 1]; also as RIA no. 1, RIA1; Contains types of Nguyen & Doan 1969	Vietnam		F&E
RIFFL	Research Institute of Freshwater Fisheries, Liaoning	China		F&E
RLIKU	Research Laboratory of Ichthyology, Kasetsart University, Bangkok; curated by Prachya Musikasinthorn (separate from KUMF)	Thailand		F&E Havird & Page 2010
RMBR	Raffles Museum of Biodiversity Research; also as RMB; Collection moved to the National Museum of Singapore in 1986	Singapore		F&E
RMNH	Naturalis–Nationaal Natuurhistorisch Museum [formerly Rijksmuseum van Natuurlijke Historie], Leiden; dry fish collection preceded by "D"	Netherlands	L85	F&E
RNHG	Royal Naval Hospital Gillingham, Medical Museum, Chatham, London, England; Collection whereabouts unknown, probably donated in part to BMNH.	U.K.		F&E
ROM	Royal Ontario Museum, Department of Natural History, Toronto, Ontario	Canada	L85	F&E
RSM	Royal Scottish Museum, Edinburgh, Scotland	U.K.	L85	
RUSI	Rhodes University and the Council for Scientific and Industrial Research, J.L.B. Smith Institute of Ichthyology, Grahamstown; renamed SAIAB.	South Africa	L85	F&E
RUSM	Royal United Service Museum, Royal United Services Institute, Whitehall, London, England; Collection whereabouts unknown, probably donated in part to BMNH	U.K.		F&E
SABS	St. Andrews Biological Station, Fisheries and Oceans Canada, St. Andrews, New Brunswick	Canada		Contact-eng.html">http://www2.mar.dfo-mpo.gc.ca/sabs/SABS-SBSA/SABS>Contact-eng.html
SACON	Salim Ali Centre for Ornithology and Natural History, Coimbatore, Tamil Nadu	India		F&E
SADC/GEF	Southern African Development Community, Global Environment Facility, Gaborone	Botswana		F&E
SAHIMEL	See SSOFM.	Japan		F&E
SAIAB	South African Institute for Aquatic Biodiversity, [formerly Rhodes University, J.L.B. Smith Institute of Ichthyology (RUSI)], Grahamstown	South Africa		F&E
SAM	South African Museum, Cape Town	South Africa	L85	F&E
SAMA	South Australian Museum, Adelaide, South Australia	Australia	L85	F&E

SASM	Sultan Alam Shah Museum [formerly Selangor State Museum (1887-1974), SSMKL], Shah Alam, Selangor	Malaysia			F&E
SAU	Southern Arkansas University, College of Science and Technology, Department of Biology, Magnolia, Arkansas	U.S.A.			F&E
SAUS	Sichuan Agricultural University, Life and Physical Science College, Chengdu, Sichuan	China			F&E
SBM	See MUS.	Malaysia			F&E
SBMNH	Santa Barbara Museum of Natural History, Santa Barbara, California	U.S.A.	L85		
SCFK-SDU	Personal collection of F. Küçük, Eirdir Su Ürünleri Fakültesi, T.C. Süleyman Demirel Üniversitesi, Isparta	Turkey			F&E
SCI-CLT	See SCI.	India			F&E
SCMRI	South Carolina Marine Resources Research Institute, Charleston, South Carolina; replaced by SCMRRI (Leviton & Gibbs 1988)	U.S.A.	L85	L&G	
SCMRRI	South Carolina Marine Resources Research Institute, Charleston, South Carolina; replacement for SCMRI (sensu Leviton et al. 1985)	U.S.A.		L&G	
SCN	Sociedad de Ciencias Naturales "La Salle", Museo de Historia Natural "La Salle"; replaced by MHNLS	Venezuela	L85		F&E
SCNU	See DBSCNU.	China			F&E
SCSFRI	South China Sea Fisheries Research Institute, Chinese Academy of Fishery Science, Guangzhou; Same institution as DBSCNU, but separate collection	China			F&E
SDSNH	San Diego Society of Natural History, San Diego Natural History Museum, Balboa Park, San Diego, California	U.S.A.	L85		
SDSU	San Diego State University Museum of Biodiversity, San Diego, California; also as UC in regional papers	U.S.A.	L85		F&E
SEKPB	Sevastopol Experimental Design Bureau for Underwater Investigation, Sevastopol	Ukraine		L&G	
SFC	Laboratory of Fishes, Shanghai Fisheries University [formerly College], Shanghai; also as SFU	China			F&E
SFRS	Sea Fisheries Research Station, Haifa	Israel	L85		F&E
SFSU	San Francisco State University, Vertebrate Museum, San Francisco, California	U.S.A.	L85		
SFU	See SFC.	China			F&E
SHML	Sandy Hook Marine Laboratory [destroyed by fire in 1985; rebuilt as James J. Howard Marine Sciences Laboratory], National Marine Fisheries Service, Highlands, New Jersey	U.S.A.	L85		http://sh.nefsc.noaa.gov/labhist.htm
SIBAC	Southwest Institute of Biology, Chengtu	China	L85		
SIO	Scripps Institution of Oceanography, Marine Vertebrate Collection, La Jolla, California	U.S.A.	L85		F&E
SIU	See SIUC	U.S.A.			F&E
SIUC	Southern Illinois University, Department of Zoology, Carbondale, Illinois	U.S.A.	L85	L&G	F&E
SIUE	Southern Illinois University, Edwardsville, Illinois	U.S.A.	L85		
SJSU	San Jose State University, Museum of Vertebrate Zoology, San Jose, California	U.S.A.	L85		
SLU	Southeastern Louisiana University, Museum of Biology, Hammond, Louisiana	U.S.A.	L85		
SM	Sarawak Museum, Kuching, Sarawak; also as SMK	Malaysia			F&E
SMAG	Southland Museum and Art Gallery, Invercargill, Southland	New Zealand			F&E
SMBL	Kyoto University, Seto Marine Biology Laboratory, Wakayama Prefecture; fishes transferred to FAKU, some lost.	Japan	L85		F&E
SMBU	Strecker Museum [moved to Mayborn Museum Complex], Baylor University, Waco, Texas; replacement for BU (Baylor University)	U.S.A.	L85		Gilbert 1998
SMEC	Sabah Museum, Elasmobranch Collection, Kota Kinabalu, Sabah; See also MUS	Malaysia			F&E
SMF	Senckenberg Forschungsinstitut und Naturmuseum [alternatively Senckenberg Research Institute and Natural History Museum], Frankfurt	Germany	L85		F&E
SMK	Sarawak Museum, Kuching; See SM.	Malaysia	L85		F&E
SMLVO	Tokai University Subtropical Marine Laboratory, Iriomoto Island, Okinawa	Japan	L85		
SMMP	Science Museum of Minnesota, St. Paul, Minnesota (paleo)	U.S.A.			Gilbert 1998
SMNH	Saskatchewan Museum of Natural History, Regina, Saskatchewan	Canada	L85		
SMNH	See NRM	Sweden			F&E

SMNK	Staatliches Museum für Naturkunde, Karlsruhe [Karlsruher Naturkundemuseum], Karlsruhe; formerly LNK, Landessammlungen für Naturkunde Karlsruhe	Germany			http://www.smnk.de/SMNK/02-0-Forschung-I.html
SMNS	Staatliches Museum für Naturkunde, Stuttgart; also as MNS	Germany	L85		F&E
SMP	Surinaams Museum, Paramaribo	Suriname	L85		
SMS	Swakopmund Museum, Swakopmund	Namibia	L85		
SMU	Sangmyung University [formerly Sangmyung Women's University], College of Natural Sciences, Life Science, Seoul; also as SMWU, EWNHM.	South Korea			F&E
SMW	Museum Wiesbaden - Naturwissenschaftliche Sammlungen [previously Staatliches Museum], Wiesbaden	Germany	L85	L&G	
SMWN	State Museum, Windhoek	Namibia	L85		
SMWU	See SMU.	South Korea			F&E
SNC	Sichuan Normal University [formerly College], Chengdu, Sichuan	China			F&E
SNCBSH	State of North Carolina Biological Station, Highlands, North Carolina	U.S.A.	L85		
SNHM	Shanghai Natural History Museum, Huangpu, Shanghai	China			F&E
SNHMB	Staatliches Naturhistorisches Museum [formerly Herzogliches Naturhistorisches Museum (1857-1918)], Braunschweig; formerly NMB, also as SNMBR, SNMB (abbreviation occupied)	Germany		L&G	
SNHMK	Sudan Natural History Museum, Khartoum	Sudan			F&E
SNM	Slovak National Museum, Bratislava; See SNMB.	Slovakia			F&E
SNMB	Slovak National Museum [Slovenské národné múzeum], Natural Science Museum, Bratislava; also as SNHM, SNM	Slovakia	L85		F&E
SNMBR	Staatliches Naturhistorisches Museum [formerly Herzogliches Naturhistorisches Museum (1857-1918)], Braunschweig; formerly NMB, also as SNHMB, SNMB (abbreviation occupied)	Germany			F&E
SNMNH	National Museum [alternatively as Saudi Arabian National Museum], Department of Natural History, Riyadh	Saudi Arabia			F&E
SNU	Seoul National University, Korea Bio-MAX Institute, Seoul; also as KIU	South Korea			F&E
SNUIZ	Shaanxi Normal University, College of Life Sciences, Department of Zoology, Xi'an, Shaangxi	China			F&E
SPKCES	See MSUMNH	India			F&E
SPNRI	Sichuan Provincial Natural Resources Research Institute, Chengdu, Sichuan	China			F&E
SRI	Serengeti Research Institute, Seronera	Tanzania	L85		
SRS/ZSI	Southern Regional Station, Zoological Survey of India, Chennai; also as ZSI-SRS, ZSI/SRS, ZSIC	India			F&E
SRSU	Sul Ross State University, Alpine, Texas	U.S.A.	L85		
SSCN	Museum of the Biological Laboratory, Chinese Academy of Sciences, Nanjing	China			F&E
SSM	Savannah Science Museum, Savannah, Georgia	U.S.A.	L85		
SSMKL	Selangor State Museum, Kuala Lumpur; Collection destroyed in 1945, but some Duncker specimens survived in BMNH (Alfred 1963:165); See also SASM.	Malaysia			F&E
SSOFM	Shimane Nature Museum of Mt. Sanbe [formerly Sanbe Shizenkan Open Field Museum], Shimane; also as SAHIMEL	Japan			F&E
SSU	Sacramento State University, Department of Biological Science, Museum of Natural History, Sacramento, California; designation as SSU acknowledged via museum website (2010)	U.S.A.	L85		http://www.csus.edu/bios/#Vertebratemuseum
STRI	Smithsonian Tropical Research Institute, Balboa, Ancón	Panama	L85		F&E
STUM	Santo Tomas University, Museum, Manila	Philippines	L85		
SU	Stanford University, Palo Alto, California; also as LSJUM; Fishes transferred to CAS (CAS-SU) with 100,000 added to each SU catalog numbers for computerization	U.S.A.			F&E
SUB	Rheinische Friedrich-Wilhelms-Universität Bonn, Institut für Zoologie, Sammlung der Universität, Bonn	Germany	L85		F&E
SUF	Incorporated Administrative Agency National Fisheries University [formerly Shimonoseki University of Fisheries (1963-1994) among others], Shimonoseki	Japan	L85		F&E
SUM	Stellenbosch University, John R. Ellerman Museum of Zoology [Resource Centre], Cape Town	South Africa	L85		
SWFC	Southwest Forestry University [formerly College], Kunming; also as SWUF	China			F&E
SWUF	See SWFC	China			F&E

SYSU	Sun Yat-sen University Museum [formerly Chung-Shan University Museum], Chung-shan, Guandong	China		F&E
SZN	Stazione Zoologica Anton Dohrn, Napoli	Italy	L85	
TABL	Tropical Atlantic Biological Laboratory, National Marine Fisheries Service, Virginia Key, Miami, Florida; fishes transferred to UF, some to USNM, ANSP	U.S.A.		F&E
TAFIRI	Tanzania Fisheries Research Institute [formerly East African Freshwater Fisheries Research Organization (EAFFRO)], Mwanza Center, Mwanza	Tanzania		F&E
TAIC	Texas A&M University, John E. Conner Museum, Kingsville, Texas	U.S.A.	L85	
TAMAR	Projeto Tamar, São João da Mata, Bahia (fishes)	Brazil		Carvalho-Filho et al. 2010
TAU	Tel Aviv University, National Museum of Natural History, Tel Aviv; also as UTAI	Israel	L85	F&E
TCWC	Texas Cooperative Wildlife Collection, Texas A&M University, College Station, Texas	U.S.A.	L85	F&E
TDHSP	Truong Dai Hoc Su Pham, University of Pedagogy, Zoological Collection, Ho Chi Minh City [formerly Saigon]	Vietnam		F&E
TFDA	Tasmanian Fisheries Development Authority, Hobart, Tasmania	Australia	L85	
TFMC	Museo de la Naturaleza y del Hombre, Museo de Ciencias Naturales, Santa Cruz de Tenerife, Canary Islands	Spain		F&E
TFRI	Taiwan Fisheries Research Institute [descended in part from Freshwater Aquaculture Experiment Station, Hsiaoli and Marine Aquaculture Experiment Station, Tainan], Chilung; also as FRIP	Taiwan	L85	F&E
THUP	Tunghai University, Science College, Department of Life Science, Systematics and Evolutionary Biology Laboratory [formerly Department of Zoology], Taichung	Taiwan	L85	F&E
TIFC	Tasmanian Inland Fisheries Commission, Hobart, Tasmania	Australia	L85	
TINRO	Pacific Ocean Research Institute for Sea Fisheries and Oceanography, Vladivostok; See MT.	Russia		L&G F&E
TISTR	Thailand Institute for Scientific and Technological Research, Ministry of Science and Technology, Bangkok	Thailand		F&E
TIU	Tokyo Imperial University, Science College Museum, Tokyo	Japan	L85	
TKPM	Tokushima Prefectural Museum, Tokushima	Japan		F&E
TMBS	Tatsuo Tanaka Memorial Biological Laboratory, Ako, Miyake-jima, Izu Islands; lab closed, collection transferred to NSMT	Japan	L85	F&E
TMBU	Tilkamanjhi Bhagalpur University, Faculty of Science, Department of Zoology, Museum, Bhagalpur, Bihar	India		F&E
TMF	See NMMB.	Taiwan		F&E
TMFE	Elasmobranchii Collection, Department of Fisheries, Faculty of Marine Science and Technology, Tokai University, Shimizu City	Japan		F&E
TMH	Tasmanian Museum and Art Gallery, Hobart, Tasmania	Australia	L85	F&E
TMP	Transvaal Museum of Natural History, Northern Flagship Institution, Pretoria, Transvaal. Types at AMG.	South Africa	L85	F&E
TNHC	Texas Natural History Collections, Texas Natural Science Center, Texas Memorial Museum, University of Texas at Austin, Austin, Texas	U.S.A.	L85	F&E
TNHM	University of Texas, Austin, Texas; deleted in Leviton & Gibbs 1988 (non-existent collection, refer to TNHC)	U.S.A.	L85	L&G
TNZ	Tianjin Natural History Museum [formerly Musée Hoang-ho Pai-ho], Tianjin	China		F&E
TOU-AE	National Taiwan Ocean University, Laboratory of Aquatic Ecology, Department of Agriculture; also as NTOU	Taiwan		F&E
TSMHN	Teylers Strichtina Museum, Haarlem	Netherlands	L85	
TTU	Museum of Texas Tech University, Lubbock, Texas	U.S.A.	L85	
TU	Tulane University Museum of Natural History [formerly F. Edward Hebert Riverside Research Laboratories (fishes)], Belle Chasse, Louisiana	U.S.A.	L85	L&G F&E
TUFIL	Tokyo University of Marine Sciences and Technology, Ichthyological Laboratory [formerly Imperial Fisheries Institute (IFI), Tokyo University of Fisheries], Tokyo	Japan	L85	F&E
TZM	Tokyo Zoological Museum, Tokyo; obsolete, see NSMT	Japan	L85	

UAB	Universidad Autónoma de Barcelona, Facultad de Biociències, Departamento de Biología, Zoología, Bellaterra, Barcelona	Spain	L85	F&E
UACI	Universite Nationale de Cote d'Ivoire, Abidjan; replacement for UAIC (sensu Leviton et al. 1985)	Côte d'Ivoire		L&G
UAG	Centre Universite de Antilles-Guyane, Laboratoire de Biologie et Physiologie Animales, Guadeloupe	French West Indies	L85	
UAIC	Universite Nationale de Cote d'Ivoire, Abidjan; obsolete, replaced by UACI (Leviton & Gibbs 1988)	Côte d'Ivoire	L85	L&G
UAIC	University of Alabama Ichthyological Collection, Tuscaloosa, Alabama; replacement for ALA (sensu Leviton et al. 1985)	U.S.A.		L&G F&E
UAJ	University of Alaska at Juneau	U.S.A.		L&G
UAM	University of Alaska Museum of the North, Fairbanks, Alaska	U.S.A.	L85	F&E
UAMNH	See AL.	U.S.A.		F&E
UAMZ	University of Alberta, Museum of Zoology, Edmonton, Alberta	Canada	L85	F&E
UANL	Universidad Autónoma de Nuevo Leon, Facultad de Ciencias Biológicas, Departamento de Zoología de Vertebrados, Monterrey, Nuevo Leon; also as FCB, Facultad de Ciencias Biológicas (obsolete)	Mexico	L85	F&E Gilbert 1998
UAZ	University of Arizona, Department of Ecology and Evolutionary Biology, Tucson, Arizona; also as UA	U.S.A.	L85	F&E
UAZM	Åbo Akademi University, Zoological Museum, Turku	Finland		F&E
UBC	University of British Columbia, Cowan Vertebrate Museum [part of Beaty Biodiversity Museum], Vancouver, British Columbia	Canada	L85	F&E
UBD	Universiti Brunei Darussalam, Faculty of Science, Department of Biology, Brunei Darussalam	Brunei		F&E
UBI	University of Basrah, Marine Science Center, Basrah	Iraq	L85	
UBJTL	Universidad de Bogotá Jorge Tadeo Lozano, Seccional Bogotá, Bogotá	Colombia		F&E
UBL	Université du Bénin, Lome	Togo	L85	
UBMZ	Universitat [Universidad] de Barcelona, Facultad de Biología, Museo de Zoología, Barcelona	Spain		F&E
UCB	University of California, Department of Zoology, Berkeley, California	U.S.A.	L85	
UCBL	Université Claude Bernard Lyon 1, IFR 41 Bio Environnement et Santé, Lyon	France		F&E
UCC	University of Cincinnati, Cincinnati, Ohio	U.S.A.	L85	
UCD	University of California, College of Biological Sciences, Davis, California	U.S.A.		F&E
UCDZ	University of Calcutta, Faculty of Science, Department of Zoology, Fish Laboratory, Kolkata	India		F&E
UCFP	University of Cambridge, Faculty of Philosophy [alternatively Cambridge Philosophical Institute], Cambridge, England	U.K.		F&E
UCLA	University of California at Los Angeles, Department of Ecology and Evolutionary Biology [formerly Biology], Los Angeles, California; much of fish collection now at LACM	U.S.A.	L85	F&E
UCM	University of Colorado Museum of Natural History, Boulder, Colorado	U.S.A.	L85	
UCP	Museo de Historia Natural de la Universidad del Cauca, Popayán; also as MHNUC	Colombia	L85	
UCR	Universidad de Costa Rica, Escuela de Biología, Museo de Zoología, Departamento de Biología, San Jose	Costa Rica	L85	F&E
UCS	University of Connecticut, Storrs, Connecticut	U.S.A.	L85	
UDO	Universidad de Oriente, Cumana, Estado Sucre	Venezuela	L85	
UDONECI	Universidad de Oriente, Centro de Investigaciones Científicas, Nucleo de Nueva Esparta, Isla Margarita	Venezuela	L85	F&E
UDSM	University of Dar Es Salaam, Dar Es Salaam	Tanzania	L85	
UEFS	Laboratório de Ictiologia, Departamento de Ciências Biológicas, Universidade Estadual de Feira de Santana, Feira de Santana	Brazil		F&E
UEMM	Universidade Eduardo Mondlane, Museu de História Natural, Maputo	Mozambique	L85	
UERJ	Universidade do Estado do Rio de Janeiro, Instituto de Biologia Roberto Alcântara Gomes, Vila Isabel, Rio de Janeiro	Brazil	L85	F&E

UF	University of Florida, Florida Museum of Natural History [formerly Florida State Museum (FSM)], Gainesville, Florida	U.S.A.	L85	F&E
UF-FSU	See FSU.	U.S.A.	L85	F&E
UFBA	Universidade Federal da Bahia, Salvador; also as MZUFBA	Brazil		F&E Carvalho-Filho et al. 2010; A. Carvalho-Filho pers. comm. 28 Sep 2010
UFC	Laboratório de Ciências do Mar, Centro de Ciências, Universidade Federal do Ceará, Fortaleza	Brazil		F&E
UFJF	Universidade Federal de Juiz de Fora, Instituto de Ciências Biológicas, Departamento de Zoologia, Juiz de Fora, Minas Gerais	Brazil		F&E
UFP	Universidade Federal de Pernambuco, Laboratório de Ciências do Mar, Recife	Brazil	L85	
UFPB	Departamento de Sistemática e Ecologia, Universidade Federal da Paraíba, João Pessoa, Paraíba	Brazil		F&E
UFPI	Universidade Federal do Piauí, Teresina, Piauí	Brazil		F&E
UFRGS	Universidade Federal do Rio Grande do Sul, Departamento de Zoologia; See DZUFRGS.	Brazil	L85	F&E
UFRJ	See MNRJ.	Brazil		F&E
UFRN	Centro de Ciências Biológicas, Universidade Federal do Rio Grande do Norte, Natal, Rio Grande do Norte	Brazil		F&E
UG	University of Guyana, Faculty of Natural Sciences, Department of Biology, Georgetown, Guyana. Also seen as UG/CSBD [University of Guyana, Center for the Study of Biological Diversity].	Guyana		F&E
UGA	University of Ghana, Accra, Legon	Ghana	L85	
UGAMNH	University of Georgia, Georgia Museum of Natural History, Athens, Georgia; also as UG (obsolete)	U.S.A.	L85	F&E Gilbert 1998
UGM	University of Guam [Unibetsedat Guahan], College of Natural and Applied Sciences, Western Pacific Tropical Research Center [formerly Marine Laboratory], Mangilao; also as UTIO	Guam	L85	F&E
UH	University of Hawaii, Honolulu, Hawaii; fish types transferred to BPBM and some to USNM	U.S.A.		F&E
UI	University of Ibadan [alternatively Nigerias Premier University], Faculty of Science, Zoological Institute, Ibadan; also as ZM/UI	Nigeria	L85	F&E
UIM	University of Idaho, Museum of Natural History, Moscow, Idaho	U.S.A.	L85	
UIMNH	University of Illinois Museum of Natural History, Urbana, Illinois; many collections (e.g., herpetology, ichthyology) curated at INHS	U.S.A.	L85	
UIS	Universidad Industrial de Santander, Departamento de Santander; UIS-T (fishes)	Colombia		F&E Castellanos-Morales 2008
UJZM	University of Jordan, Zoological Museum, Amman	Jordan	L85	
UKEN	University of Kentucky, Lexington, Kentucky	U.S.A.	L85	
UKS	University of Khartoum, Natural History Museum, Khartoum	Sudan	L85	
UL	University of Louisville, Louisville, Kentucky	U.S.A.	L85	
ULAB	Universidad de Los Andes, Bogotá	Colombia	L85	
ULAM	Universidad de Los Andes, Mérida	Colombia	L85	
ULIZ	Universität Leipzig, Institut für Zoologie, Zoologische Lehrsammlung, Leipzig, Sachsen	Germany		F&E
ULM	University of Lucknow Museums, Lucknow, Uttar Pradesh	India	L85	
UMA	University of Massachusetts, Amherst, Massachusetts	U.S.A.		Kammerer et al. 2005
UMB	Überseemuseum [formerly Gesellschaft Museum (1783-1896); Städtisches Museum für Natur-, Völker- und Handelskunde (1896-1951)], Bremen	Germany	L85	F&E
UMBC	University of Malawi, Bunda College of Agriculture, Lilongwe	Malawi		F&E
UMIM	University of Miami, College of Arts and Sciences, Division of Biology, Ichthyological Museum, Coral Gables, Florida; no longer exists, specimens mostly to USNM, UMML (UMML now mostly at UF)	U.S.A.		F&E
UMKC	University of Missouri, Kansas City, Missouri	U.S.A.	L85	
UMKL	University of Malaya, Kuala Lumpur	Malaysia	L85	
UMM	University of Montana, Zoology Department, Missoula, Montana	U.S.A.	L85	
UMML	University of Miami, Rosenstiel School of Marine and Atmospheric Science [formerly Marine Laboratory], Miami, Florida	U.S.A.	L85	F&E
UMMP	University of Michigan Museum of Paleontology, Ann Arbor, Michigan (paleo)	U.S.A.		Gilbert 1998
UMMZ	University of Michigan Museum of Zoology, Ann Arbor, Michigan	U.S.A.	L85	F&E

UMNH	Utah Museum of Natural History, University of Utah, Salt Lake City, Utah; replaces UU (sensu Leviton et al. 1985)	U.S.A.	L85	L&G
UMO	University of Maine, Department of Zoology, Orono, Maine	U.S.A.	L85	
UMOC	University of Missouri, Museum of Zoology, Columbia, Missouri; also as UMoMZ (obsolete)	U.S.A.	L85	F&E Gilbert 1998
UMP	University of Melbourne, Parkville, Victoria	Australia	L85	
UMRC	University of Miami Reference Collection, Biology Department, Coral Gables, Florida	U.S.A.	L85	
UMS	University of Mississippi, University, Mississippi	U.S.A.	L85	
UMSS	Universidad Mayor de San Simón, Facultad de Ciencias y Tecnología, Centro de Biodiversidad, Zoología, Laboratorio de Ictiología, Cochabamba	Bolivia		F&E
UMVP	University of Minnesota, Department of Geology and Geophysics, Minneapolis, Minnesota (paleo)	U.S.A.		Gilbert 1998
UMZ	Umtali Museum; deleted in Leviton & Gibbs 1988 (renamed Mutare Museum, zoological collections removed to NMZB-UM, Natural History Museum of Zimbabwe)	Zimbabwe	L85	L&G
UMZC	University Museum of Zoology, University of Cambridge, Cambridge, England; also as ZMC	U.K.		F&E http://www.asih.org/codons.pdf
UN	University of Nebraska, Nebraska State Museum, Lincoln; replaced by UNSM (Leviton & Gibbs 1988)	U.S.A.	L85	L&G
UNAH	Universidad Nacional Autónoma, Departamento de Biología, Ciudad Universitaria, Tegucigalpa	Honduras	L85	
UNAL	See AL	U.S.A.		F&E
UNAM	Universidad Nacional Autónoma de México, Departamento de Zoología, Instituto de Biología; See CNP-IBUNAM.	Mexico	L85	F&E
UNC	University of North Carolina, Institute of Marine Sciences, Morehead City, North Carolina	U.S.A.	L85	
UNCC	University of North Carolina, Zoological Museum, UNCC Station, Charlotte, North Carolina	U.S.A.	L85	
UNCW	University of North Carolina at Willmington, Department of Biological Sciences, Wilmington, North Carolina	U.S.A.	L85	
UND	University of Natal, Durban	South Africa	L85	
UNEFM	Universidad Nacional Experimental Francisco de Miranda, Coro, Falcón	Venezuela		F&E
UNIMAS	University of Malaysia Sarawak, Kuching, Sarawak	Malaysia		F&E
UNO	University of Nebraska at Omaha, Omaha, Nebraska	U.S.A.	L85	
UNO	See UNOVC.	U.S.A.		F&E Gilbert 1998
UNOAL	University of Northern Alabama, College of Arts and Sciences, Department of Biology, Tuscalusa, Alabama	U.S.A.		F&E
UNOVC	University of New Orleans vertebrate collection, Department of Biological Sciences, New Orleans, Louisiana; also as UNO (obsolete)	U.S.A.		F&E Gilbert 1998
UNR	University of Nevada, College of Science, Department of Biology, Museum of Biology, Reno, Nevada; collection transferred to CAS; also as UNMB	U.S.A.	L85	F&E Gilbert 1998
UNSM	University of Nebraska State Museum, Lincoln; replaces UN (sensu Leviton et al. 1985)	U.S.A.		L&G
UNT	Universidade Federal [formerly Nacional] do Tocantins, Porto Nacional, Tocantins; also as UFT	Brazil		F&E
UO	University of Oregon, Eugene, Oregon (paleo)	U.S.A.		Gilbert 1998
UOIO	Universidad de Oriente, Instituto Oceanográfico, Cumana	Venezuela	L85	
UOMNH	University of Oregon, Museum of Natural History, Eugene, Oregon	U.S.A.	L85	
UOMZ	University of Oklahoma, Stovall Museum of Science and History, Norman, Oklahoma; replaced by OKMNH (Leviton & Gibbs 1988)	U.S.A.	L85	L&G F&E
UP	Universidad de Panamá	Panama	L85	
UPL	University of the Punjab, Faculty of Science, College of Earth and Environmental Sciences, Department of Zoology, Lahore	Pakistan		F&E
UPMSI	Marine Science Institute, University of the Philippines in Diliman, Diliman	Philippines		F&E
UPNG	University of Papua and New Guinea, Port Moresby; includes material salvaged from KFRS, Kanudi Fisheries Research Station (G. Allen pers. comm. 2008 in Fricke & Eschmeyer 2010)	Papua New Guinea	L85	L&G
UPR	University of Puerto Rico, Department of Marine Sciences, Mayagüez; also as UPRM	Puerto Rico		F&E
UPRM	University of Puerto Rico, Department of Marine Sciences, Mayagüez; also as UPR	Puerto Rico	L85	
UPRRP	University of Puerto Rico, Rio Piedras	Puerto Rico	L85	

UR	University of Richmond, Department of Biology, Richmond, Virginia; fishes transferred to VIMS	U.S.A.	L85	
URB	University of the Ryukyus, Faculty of Science, Department of Chemistry, Biology and Marine Science [formerly Ryukyu University, Department of Zoology], Nishihara, Okinawa; also as URM, URM-P (fishes)	Japan	L85	F&E
URIZ	University of Rhode Island, Department of Zoology, Kingston, Rhode Island	U.S.A.	L85	
URM	University of the Ryukyus, Okinawa; See URB.	Japan	L85	F&E
URM-P	See URB.	Japan		F&E
USA	University of South Alabama, College of Arts and Sciences, Department of Biological Sciences, Mobile, Alabama	U.S.A.	L85	F&E
USBCF	United States Bureau of Commercial Fisheries [also as USBF; functions transferred to NOAA], Biological Laboratory, Woods Hole, Massachusetts; original collection with this abbreviation mostly now at USNM.	U.S.A.		F&E
USBF	See USBCF.	U.S.A.		F&E Gilbert 1998
USC	University of South Carolina, Baruch Coastal Research Institute, Columbia, South Carolina	U.S.A.	L85	
USDZ	University of Singapore, Department of Zoology, Singapore	Singapore	L85	
USF	University of South Florida, Department of Marine Science, St. Petersburg, Florida	U.S.A.	L85	
USFC	United States Bureau of Fisheries [formerly United States Fish Commission], predecessor of National Marine Fisheries Service (NMFS); Original collection using this abbreviation mostly now at USNM	U.S.A.		F&E Gilbert 1998
USL	University of Southwestern Louisiana, Lafayette, Louisiana	U.S.A.	L85	
USM	University of Southern Mississippi, Museum of Ichthyology, Department of Biological Sciences, Hattiesburg, Mississippi; also as USMS	U.S.A.		L&G
USNM	National Museum of Natural History, Smithsonian Institution [formerly United States National Museum], Department of Vertebrate Zoology, Washington D.C.	U.S.A.	L85	F&E
USP	University of the South Pacific, Institute of Applied Sciences [formerly Institute of Marine Resources], Suva	Fiji	L85	F&E
USPS	University of the South Pacific, Faculty of Science and Technology, School of Biological, Chemical and Environmental Sciences, Division of Biology, Suva	Fiji		F&E
UT	University of Tennessee, Department of Zoology, Knoxville, Tennessee	U.S.A.	L85	
UT	University of Tennessee, Joint Institute of Biological Sciences, Department of Zoology, Knoxville, Tennessee	U.S.A.		F&E
UTA	University of Texas at Arlington, Department of Biology, Texas; Leviton et al. 1985 indicated "Merriam Museum", relevant subsequent references not found	U.S.A.	L85	
UTAI	See TAU.	Israel		F&E
UTEP	University of Texas at El Paso, Department of Environmental Science, Laboratory for Environmental Biology, El Paso, Texas	U.S.A.	L85	F&E
UTU	University of Tulsa, Henry Kendall College of Arts and Sciences, Department of Environmental Policy, Tulsa, Oklahoma	U.S.A.		F&E
UTZI	Eberhard-Karls-Universität Tübingen, Fakultät für Biologie, Zoologisches Institut, Tübingen, Baden-Württemberg	Germany		F&E
UU	University of Utah, Salt Lake City, Utah; replaced by UMNH (Leviton & Gibbs 1988)	U.S.A.	L85	L&G
UUZM	Uppsala University, Zoological Museum; See ZMUU.	Sweden		F&E
UV	Universidad del Valle, Departamento de Biología, Facultad de Ciencias, Cali; also as CIRUV	Colombia	L85	F&E
UVG	Universidad del Valle, Ciudad Guatemala	Guatemala	L85	
UW	University of Washington, College of Ocean and Fishery Sciences [formerly College of Fisheries], Seattle, Washington; also as MNHW, UWF	U.S.A.	L85	F&E
UWF	University of West Florida, Pensacola, Florida	U.S.A.	L85	
UWF	See UW.	U.S.A.		F&E
UWGB	Richter Museum of Natural History, University of Wisconsin, Green Bay, Wisconsin	U.S.A.		D.J. Meinhardt, pers. comm. 2006
UWL	University of Wyoming, Zoology Museum, Laramie, Wyoming; also as UW (paleo)	U.S.A.	L85	Gilbert 1998
UWM	University of Wisconsin, Zoology Department, Milwaukee, Wisconsin	U.S.A.	L85	

UWSP	University of Wisconsin Stevens Point, Museum of Natural History, Stevens Point, Wisconsin	U.S.A.	L85	
UWZM	University of Wisconsin Zoological Museum, Madison, Wisconsin	U.S.A.	L85	
UWZM	University of Wrocław [formerly University of Breslau], Faculty of Biological Sciences, Institute of Zoology, Zoological Museum, Wrocław	Poland		F&E
UZA	Unidad de Zoología Aplicada, Departamento de Ecología, Consejería de Agricultura y Ganadería, Comunidad Autónoma de Madrid, Madrid	Spain		F&E
V/A/ERS	See ERS/ZSI.	India		F&E
VBCM	Universidad Complutense de Madrid, Catedra de Vertebrados, Departamento de Zoología y Antropología, Facultad de Ciencias Biológicas, Madrid	Spain	L85	F&E
VIMS	Virginia Institute of Marine Science, Gloucester Point, Virginia	U.S.A.	L85	F&E
VM	Vitenskapsmuseet [Museum of Natural History and Archaeology], University of Trondheim, Trondheim; also as VSM	Norway		http://www.asih.org/codons.pdf
VMM	Suffolk County Vanderbilt Museum [formerly Vanderbilt Marine Museum], Centerport, New York; most type specimens now at AMNH	U.S.A.	L85	F&E
VMMB	Victoria Memorial Museum Building, Canadian Museum of Nature, Ottawa; now part of CMNFI	Canada		F&E
VNIROA	Kaspiiskogo basseinovogo filiala, VNIRO, Astrakhan	Russia		F&E
VSM	NTNU Vitenskapsmuseet [formerly Det Kongelige Norske Videnskabers Selskab (DKNVS)], Norwegian University of Science and Technology [formerly University of Trondheim], Trondheim	Norway	L85	F&E
VUW	Victoria University, Wellington; deleted in Leviton & Gibbs 1988 (no cataloged collections, reference material deposited in NMNZ, National Museum of New Zealand)	New Zealand	L85	L&G F&E
WAM	Western Australian Museum, Perth, Western Australia	Australia	L85	F&E
WCUUM	West China Union University, Museum, Chengtu, Sichuan	China	L85	
WGRS	See WGRS/ZSI.	India		F&E
WGRS/ZSI	Western Ghat Field Station, Zoological Survey of India, Kozhikode, Calicut; also as ZSI/WGFR, WGRS	India		F&E
WHOI	Woods Hole Oceanographic Institution, Woods Hole, Massachusetts; Collection transferred to MCZ.	U.S.A.	L85	F&E
WHT	Wildlife Heritage Trust of Sri Lanka, Colombo	Sri Lanka		F&E
WIAP	Wistar Institute [formerly Wistar Institute of Anatomy], Philadelphia, Pennsylvania; Borneo fishes extant at ANSP	U.S.A.		F&E
WLMH	West Lake Museum, Hangzhou, Chekiang	China		F&E
WLUB	Wilfrid Laurier University, Department of Biology, Waterloo, Ontario	Canada	L85	
WML	World Museum Liverpool [formerly Liverpool Museum], Clore Natural History Centre, Liverpool, England	U.K.		F&E
WMSA	Witte Museum, San Antonio, Texas	U.S.A.		F&E
WOLL	University of Wollongong, Wollongong, New South Wales	Australia	L85	
WPU-PPC	Western Philippines University, Puerto Princesa City Campus, Biological Collection, Puerto Princesa City	Philippines		F&E
WUM	University of the Witwatersrand, Johannesburg, Cape Province	South Africa	L85	
WUM	Wesleyan University, Museum, Middletown, Connecticut	U.S.A.		F&E
WURC	Walailak University, Faculty of Science, Tha Sala District, Nakhon Si Thammarat Province	Thailand		F&E
WVBS	West Virginia Biological Survey, Huntington, West Virginia	U.S.A.	L85	
XFCFC	Jimei University, Fisheries College [formerly Xiamen Fisheries College], Xiamen, Fujian	China		F&E
YCM	Yokosuka City Museum, Yokosuka, Kanagawa	Japan	L85	F&E
YPM	Yale University, Peabody Museum of Natural History, New Haven, Connecticut; also as BOC	U.S.A.	L85	F&E
YQAMS	See QAMS.	China		F&E
YU	Yunan University, Kunming; See MZYU.	China	L85	F&E
YUGNIRO	Southern Scientific Research Institute of Marine Fisheries and Oceanography, Kerch	Ukraine		F&E
ZDEU	Zoology Department [also as SistematiK Zooloji Kursusu], Ege Universitesi, Izmir	Turkey	L85	
ZDKU	Kharkiv University, Kharkiv [=Kharkov]	Ukraine	L85	

ZFMK	Zoologisches Forschungsmuseum [formerly Forschungsinstitut und Museum] Alexander König [=Koeing], Bonn	Germany	L85	F&E
ZIA	Zoological Institute, National Academy of Sciences of the Republic of Armenia [formerly Armenian Academy of Sciences], Erevan	Armenia	L85	
ZIAS	Zoological Institute, Academia Sinica, Shanghai	China	L85	
ZIAS	See ZIN.	Russia		F&E
ZIAZ	See IZAB.	Azerbaijan		F&E
ZICT	Zoological Institution Committee, Institute of Agriculture and Animal Science, Tribhuvan University, Kathmandu; possibly obsolete, see also NHM	Nepal		F&E Shrestha 1980
ZICUP	See CUP.	Czech Republic		F&E
ZIDTU	Zoologisches Institut, Dresden Technical University, Dresden	Germany	L85	
ZIHU	Hiroshima University, Faculty of Science, Department of Biological Sciences [formerly Zoological Institute], Hiroshima	Japan	L85	F&E
ZIK	Zoological Institute, Ukrainian Academy of Sciences, Kiev; also as ZMUAS, IZANU	Ukraine	L85	F&E
ZIKU	See BSKU.	Japan		F&E
ZIL	Zoological Institute, Russian Academy of Sciences, St. Petersburg [formerly Leningrad]; replaced by ZIN (Leviton & Gibbs 1988)	Russia	L85	L&G
ZIM	See ZMH.	Germany		F&E
ZIN	Zoological Institute, Russian [formerly U.S.S.R.] Academy of Sciences, St. Petersburg [formerly Leningrad]; also as ZIAS, ZISP, ZIL	Russia		L&G F&E
ZIS	Universität des Saarlandes, Saarbrücken	Germany	L85	
ZISP	See ZIN.	Russia		F&E
ZIT	Zoological Institute, Grusian Academy of Sciences, Tbilisi	Georgia	L85	
ZIUS	Zoologiska Institutionen, Stockholms Universitet, Stockholm	Sweden	L85	
ZIUW	Zoologisches Institut, Universität Wien, Wien	Austria	L85	
ZIUZ	Zoological Institute, Sveučilište u Zagrebu [University of Zagreb], Zagreb	Croatia	L85	
ZLSYU	Zoological Laboratory, Sun Yat-Sen University, Guangzhou	China		F&E
ZM/UI	See UI	Nigeria		F&E
ZMA	Zoologisch Museum, Universiteit van Amsterdam [alternatively Zoological Museum Amsterdam], Amsterdam	Netherlands	L85	F&E
ZMAU	Zoological Museum, Faculty of Science, Andhra University, Visakhapatnam, Andra Pradesh	India		F&E
ZMB	Museum für Naturkunde [formerly Zoologischen Museum], Humboldt-Universität, Berlin; also as ISZZ, ZMHU	Germany	L85	F&E
ZMBN	Universitetet i Bergen, Bergen Museum, Naturhistorie, Zoologiske, Entomologiske samlinger; assigned to Vertebrate Section	Norway		http://www.asih.org/codons.pdf
ZMC	Department of Biology, Zunyi Medical College, Zhuhai, Guizhou	China		F&E
ZMFMIB	Zoological Museum, Fan Memorial Institute of Biology, Tsinghua University, Beijing; now ASIZB	China		F&E
ZMH	Zoological Museum Hamburg [Biozentrum Grindel und Zoologisches Museum; formerly Zoologisches Institut und Museum], Universität Hamburg, Hamburg; also as NMH, ZIM	Germany	L85	F&E
ZMHU	See ZMB.	Germany		F&E
ZMISU	Zoological Museum, The Faculty of Biology and Soil Science, Irkutsk State University, Irkutsk	Russia		F&E
ZML	Musée de Zoologie [now Musée Cantonal de Zoologie], Lausanne	Switzerland		http://www.asih.org/codons.pdf
ZML	See ZMUL.	Sweden		F&E
ZMMGU	Zoological Museum, Moscow State University; See ZMMU.	Russia	L&G	F&E
ZMMSU	Zoological Museum of the Moscow State University; See ZMMU.	Russia		http://www.asih.org/codons.pdf
ZMMU	Zoological Museum of M.V. Lomonosov State [Mocsow] University [formerly Cabinet of Natural History, Imperial Moscow University (1791-1930)]; also as MMSU, ZMMGU, ZMMGY, ZMMSU	Russia		F&E
ZMNH	Zhejiang Museum of Natural History, Hangzhou, Zhejiang	China		F&E
ZMT	S. Janashia State Museum of Georgia, Zoological Section, Georgian Academy of Sciences, Tbilisi	Georgia	L85	F&E
ZMTU	Zoologiceskogo Muzei (Museum of Zoology), Tomsk State University, Tomsk	Russia		F&E
ZMU	See ZMUU.	Sweden		F&E

ZMUA	Zoological Museum, Department of Biology, College of Life Science, Xiamen University [formerly University of Amoy], Xiamen, Fujian	China		F&E
ZMUAS	See ZIK.	Ukraine		F&E
ZMUB	Universitetet Bergen, Bergen Museum, Naturhistorie, Zoologiske, Vertebratsamlinger	Norway	L85	F&E
ZMUC	Københavns Universitet, Zoologisk Museum [Zoological Museum, University of Copenhagen], Vertebrater, Fiskesamlingen, Copenhagen; also seen as UZMK	Denmark	L85	F&E
ZMUI	University of Istanbul, Hydrobiology Museum [old name]; See IUSHM.	Turkey		F&E
ZMUL	Zoologiska museet, Lunds universitet, Lund; also as ZML, MZUL	Sweden	L85	F&E
ZMULB	Muséum [Musée] de Zoologie, Faculté des Sciences, Departement Biologie des Organismes, Université Libre de Bruxelles, Brussels	Belgium		F&E
ZMUO	Zoologisk Museum, Universitetet i Oslo, Oslo	Norway	L85	F&E
ZMUT	See ZUMT.	Japan		F&E
ZMUU	Zoologiska Museet, Uppsala Universitet [Uppsala University Zoological Museum], Uppsala; also as UUZM, ZMU	Sweden	L85	F&E
ZMUZ	Universität Zürich, Zürich; replaced by ZMZ (Leviton & Gibbs 1988)	Switzerland	L85 L&G	
ZMYU	Zoological Museum, Faculty of Arts and Sciences, Yangon University [formerly University of Rangoon], Kamayut Township, Yangon	Myanmar		F&E
ZMZ	Universität Zürich, Zürich; replacement for ZMUZ (sensu Leviton et al. 1985)	Switzerland	L&G	
ZMZ	Zanzibar Museum [Nyumba ya Kumbukumbu], Zanzibar	Tanzania		F&E
ZRC	Zoological Reference Collection, Department of Life Sciences, Faculty of Science, National University of Singapore; also as ZRCS, NUS, USDZ	Singapore		F&E Ng & Kim 2008
ZRCS	See ZRC.	Singapore		F&E
ZSI	Zoological Survey of India, Kolkata [formerly Calcutta]; also as ZSI-CLT	India	L85 L&G	F&E
ZSI/APFS	Arunachal Pradesh Field Station, Itanagar, Arunachal Pradesh; also APFS/ZSI	India		F&E
ZSI/NRS	See NRS/SZI.	India		F&E
ZSI/SRS	See SRS/ZSI.	India		F&E
ZSI/WGFR	See WGFR/ZSI.	India		F&E
ZSIC	Zoological Survey of India, Chennai; also as SRS/ZSI, ZSI-SRS, ZSI/SRS	India		Manimekalan & Das 1998
ZSL	Zoological Society of London, London, England; Collection whereabouts unknown, probably donated in part to BMNH	U.K.		F&E
ZSM	Zoologische Staatssammlung München [alternatively as Bavarian State Collection of Zoology; previously as Zoologisches Sammlng des Bayerischen Staates], München	Germany	L85	F&E
ZSM/LIPI	Zoologische Museum Staatssammlung, München [specimens eventually to be transferred to Indonesian institution].	Germany		F&E
ZSP	Zoological Museum, Zoological Survey Department, Government of Pakistan [alternatively as Zoological Survey of Pakistan], Karachi	Pakistan	L85	F&E
ZUEC	Museu de Zoologia da Universidade Estadual de Campinas "Adão José Cardoso", Campinas, São Paulo	Brazil	L85	F&E
ZUFES	Universidade Federal do Espírito Santo, Centro de Ciências Humanas e Naturais, Departamento de Ciências Biológicas, Vitória, Espírito Santo	Brazil		F&E
ZUFRJ	Departamento de Zoologia, Instituto de Biologia, Universidade Federal do Rio de Janeiro, Rio de Janeiro	Brazil		Ferreira et al. 2010
ZUMH	See DVZUT	Vietnam		F&E
ZUMT	Department of Zoology, University Museum, University of Tokyo [formerly Tokyo Imperial University, Science College Museum; Imperial Museum], Tokyo; Also as ZMUT, MUT, ZIUT, TIU, UMUTZ	Japan	L85	F&E
ZVC	Departamento de Zoologia Vertebrados, Facultad de Humanidades y Ciencias, Universidad de Montevideo, Montevideo; also as ZVC-P (fishes)	Uruguay		F&E
ZZSZ	Zoologijski zavod, Biološki odsjek, Prirodoslovno-matematički fakultet, Sveučilišta u Zagrebu [University of Zagreb], Zagreb; also as PMF	Croatia		F&E

Personal Correspondences	Day/Month	Year
D.J. Meinhardt		2006
Hiroyuki Motomura	18-Sep	2010
Edith C. Marsh-Matthews	13-Sep	2010
William Eschmeyer	22-Sep	2010
Alfredo Carvalho-Filho	28-Sep	2010

Benine, R.C., T.C. Mariguela & C. Oliveira	2009	New species of <i>Moenkhausia</i> Eigenmann, 1903 (Characiformes: Characidae) with comments on the <i>Moenkhausia oligolepis</i> species complex. <i>Neotropical Ichthyology</i> v. 7 (no. 2): 161-168.
Borodulina, O.D.	2008	External structure of postorbital organ of certain representatives of family astronethidae (Stomiiformes). <i>Journal of Ichthyology</i> 48(6):422-425.
Carvalho-Filho, A., G. Marcovaldi, C.L.S. Sampaio, M. Isabel, G. Paiva & L.A.G. Duarte.	2010	First report of <i>Aulopus</i> (Teleostei: Aulopidae) from Southwestern Atlantic, with a review of records and a key to Western Atlantic Aulopoidei species. <i>Zootaxa</i> 2628:27-42. 27-42
Castellanos-Morales, C. A.	2008	<i>Trichomycterus uisae</i> : a new species of hypogean catfish (Siluriformes: Trichomycteridae) from the northeastern Andean Cordillera of Colombia. <i>Neotropical Ichthyology</i> v. 6 (no. 3): 307-314.
Correa, C., G. Lobos, L. Pastenes & M.A. Méndez	2008	Invasive <i>Pleurodema thaul</i> from Robinson Crusoe Island: molecular identification of its geographic origin and comments on the phylogeographic structure of this species in mainland Chile. <i>Herpetological Journal</i> 18:77-82.
Daza, J.M., E.N. Smith, V.P. Páez & C.L. Parkinson.	2009	Complex evolution in the Neotropics: The origin and diversification of the widespread genus <i>Leptodeira</i> (Serpentes: Colubridae). <i>Molecular Phylogenetics and Evolution</i> 53(3):653-667
de Santana, C.D., & J.A. Maldonado-Ocampo	2005	<i>Apteronotus milesi</i> , new species of ghost knifefish (Gymnotiformes: Apteronotidae) from the Cauca River, with a key to apteronotids from the Magdalena-Cauca basin, Colombia. <i>Ichthyological Exploration of Freshwaters</i> v. 16 (no. 3): 223-230.
de Santana, C.D., & R.P. Vari	2010	Electric fishes of the genus <i>Sternarchorhynchus</i> (Teleostei, Ostariophysi, Gymnotiformes); phylogenetic and revisionary studies. <i>Zoological Journal of the Linnean Society</i> v. 159: 223-371.
Echelle, A.A., & A.F. Echelle.	1978	The Pecos River pupfish, <i>Cyprinodon pecosensis</i> n. sp. (Cyprinodontidae), with comments on its evolutionary origin. <i>Copeia</i> 1978(4):569-582.
Ferreira, R.B., T. Silva-Soares, J.F.R. Tonini & R. de Barros Dantas	2010	New records and distribution of a species vulnerable to extinction: <i>Euparkerella tridactyla</i> (Anura, Strabomantidae). <i>Herpetology Notes</i> 3:57-60.
Gilbert, C.A.	1998	Type catalog of Recent and fossil North American Freshwater fishes: families Cyprinidae, Catostomidae, Ictaluridae, Centrarchidae and Elasmomatidae. Florida Museum of Natural History, Special Publication No. 1. i-ii + 1-284.
Gilbert, C.A.	2009	The "lost" Jordan and Hay fish collection at Butler University. <i>Proceedings of the Indiana Academy of Sciences</i> v. 118 (no. 2): 143-186.
Gottfried, M.D., & D.W. Krause	1998	First record of gars (Lepisosteidae, Actinopterygii) on Madagascar: Late Cretaceous remains from the Mahajanga basin. <i>Journal of Vertebrate Paleontology</i> 18(2):275-279.
Havird, J.C., & L.M. Page	2010	A revision of <i>Lepidocephalichthys</i> (Teleostei: Cobitidae) with descriptions of two new species from Thailand, Laos, Vietnam, and Myanmar. <i>Copeia</i> 2010 (no. 1): 137-159.
Kammerer, C.F., L. Grande & M.W. Westneat	2005	Comparative and developmental functional morphology of the jaws of living and fossil gars (Actinopterygii: Lepisosteidae). <i>Journal of Morphology</i> 267(9):1017-1031
Kuch, U., D. Kizirian, N. Quang Truong, R. Lawson, M.A. Donnelly & D. Mebs	2005	A New Species of Krait (Squamata: Elapidae) from the Red River System of Northern Vietnam. <i>Copeia</i> 2005(4):818-833.
Küçük, F.	2007	<i>Pseudophoxinus alii</i> (Teleostei: Cyprinidae), a new fish species from the Antalya Region, Turkey. <i>Turkish Journal of Zoology</i> v. 31: 1-8.
Lavenberg, R.J., & A.L.A. Yañez	1972	A new species of <i>Cirrhitis</i> from Easter Island (Pisces, Cirrhitidae). <i>Gayana, Zoologia</i> No. 21: 3-11.
Manimekalan, A., & H.S. Das	1998	<i>Glyptothorax davissinghi</i> (Pisces: Sisoridae) a new cat fish from Nilambur in the Nilgiri Biosphere Reserve, South India. <i>Journal of the Bombay Natural History Society</i> v. 95 (pt 1): 87-91.
Ng, H.H., & K.K.P. Kim	2008	Catalogue of the siluriform (Teleostei: Ostariophysi) types in the Raffles Museum of Biodiversity Research, National University of Singapore. <i>Raffles Museum of Biodiversity Research: ii+ 1-74.</i>
Pérez, A., & A. Viloria	1994	<i>Ancistrus galani</i> n. sp. (Siluriformes: Loricariidae), with comments on biospeleological explorations in western Venezuela. <i>Mémoires de Biospéologie</i> v. 21: 103-107.
Portell, R.W., G. Hubbell, S.K. Donovan, J.L. Green, D.A.T. Harper & R. Pickerill	2008	Miocene sharks in the Kendeace and Grand Bay formations of Carriacou, The Grenadines, Lesser Antilles. <i>Caribbean Journal of Science</i> 44(3):279-286.
Randall, J.E., & R. Meléndez C.	1987	A new sole of the genus <i>Aseraggodes</i> from Easter Island and Lord Howe Island, with comments on the validity of <i>A. ramsaii</i> . <i>Occasional Papers of the Bernice Pauahi Bishop Museum of Polnesian Ethnology and Natural History</i> v. 27: 97-105.
Sabaj, M.H., K.S. Cummings & L.M. Page	1997	Annotated catalog of type specimens in the Illinois Natural History Survey fish collection. <i>Illinois Natural History Survey Bulletin</i> v. 35 (art. 5): 249-300.
Shrestha, J.	1980	Fishes of Nepal. Curriculum Development Centre, Tribhuvan Univ., Kathmandu. <i>Fishes of Nepal.</i>
Ursenbacher, S., M. Carlsson, V. Helfer, H. Tegelström & L. Fumagalli	2006	Phylogeography and Pleistocene refugia of the adder (<i>Vipera berus</i>) as inferred from mitochondrial DNA sequence data. <i>Molecular Ecology</i> 15(11): 3425-3437.
Villa-Navarro, F.A., P.T. Zúñiga-Upegui, D.Castro-Roa, J.E. García-Melo, L.J. García-Melo & M.E. Herrada-Yara	2006	Peces del alto Magdalena, cuenca del río magdalena, Colombia. <i>Biota Colombiana</i> 7(1):3-22.