Reconstructing *Dunkleosteus terrelli* (Placodermi: Arthrodira): A New Look for an Iconic Devonian Predator, Appendix 5: Supplementary References

# Institutional Abbreviations

**AA.MEM.DS** – Université Cadi Ayyad, Marrakech, Morocco

**AMNH** – American Museum of Natural History, New York, New York, USA

**AMS** or **AMF** – Australian Museum, Sydney, Australia

**ANSP** – Academy of Natural Sciences, Philadelphia, Pennsylvania, USA

**ASIZP** – Biodiversity Research Museum, Chinese Academy of Sciences, Nankang, Taipei City, Taiwan

**AtlantNIRO** – Atlantic Scientific Research Institute of Marine Fisheries and Oceanography, Kaliningrad, Russia

**AUBM** – American University of Beirut, Beirut, Lebanon

**AZUSC** – Acervo Zoológico da Universidade Santa Cecília, Santos, Brazil

**BMNH** – The Natural History Museum (London), London, U.K.

Note: these are specimens referred to in older studies before the institutions abbreviation change to NHMUK, abbreviations are kept the same here for easier reference to cited study.

**BPBM** - Bernice Pauahi Bishop Museum, Department of Zoology, Honolulu, Hawaii, USA

**BRT-I** – Blue Resources Trust Ichthyology Collection (BRT-I) Sri Lanka

**CAS (incl. CAS SU)** – California Academy of Sciences, San Francisco, California, USA

**CBM-ZF** – Natural History Museum & Institute, Chiba, Japan

**CCC** – Coelacanth Conservation Council (no address). Numbers are not specimen numbers but internal numbering system within cited references.

**CICIMAR-CI** – Ichthyological Collection, Centro Interdisciplinario de Ciencias Marinas, La Paz, Baja California Sur, Mexico

**CI-UABC** – Ichthyology Collection, Universidad Autónoma de Baja California, Ensenada, Baja California, Mexico

**CMC** – Canterbury Museum, Christchurch, New Zealand

**CMFRI** – Marine Biodiversity Museum, Central Marine Fisheries Research Institute, Kochi, India

**CMK** – Maurice Kottelat, personal collection

**CMNH** – Cleveland Museum of Natural History, Cleveland, Ohio, USA

**CNPE-IBUNAM** – Colección Nacional de Peces of the Instituto de Biología, Universidad Nacional Autónoma de México, Mexico City, Mexico

**CNPICT** – Centro Nacional Patagónico, Puerto Madryn, Argentina

**COLETA** – Institute of Marine Research (IMAR - Azores), Portugal

**CSIRO** – Australian National Fish Collection, Hobart, Tasmania

**DSZ** – Department of Animal Science, University of Sassari, Sassari, Italy

**DU-FS** - KaziZaker Husain Museum of the Department of Zoology, University of Dhaka, Dhaka, Bangladesh

**EBFS** – Department of Environmental Biology and Fisheries Science, National Taiwan Ocean University, Keelung, Taiwan.

**ECOSC** – El Colegio de la Frontera Sur, San Cristóbal de Las Casas, Mexico

**ERB** – Elasmobranch Research Belgium, Berlaar, Belgium

**ESFM-PIS** – Fisheries Faculty, Ege University, Bornova/İzmir, Turkey

**FAKU** – Kyoto University Museum, Kyoto, Japan

**FMNH** – The Field Museum, Chicago, USA

**FMRI (MMMC)** – Marine Biodiversity Museum of Mandapam Regional Centre, Central Marine Fisheries Research Institute (CMFRI), Mandapam, Ramanathapuram District, India

**FRIP** – Taiwan Fisheries Institute, Keelung, Taiwan

**FSB** – Faculté des Sciences Biologiques (FSB), Université des sciences et de la technologie Houari-Boumediene (USTHB), Bab Ezzouar, Algeria

**FSBC** – Florida State Biodiversity Collection, St. Petersburg, Florida, USA

**FST** – Faculté des Sciences de Tunis, University of Tunis El Manar, Tunis, Tunisia

**FUMT** – Department of Fisheries, University Museum, University of Tokyo (FUMT) [specimens now catalogued in National Science Museum, Department of Zoology, Tokyo, Japan]

**GAFR** – Ichthyological Collection of the General Commission for Fisheries Resources Lattakia, Syria

**GCRL** – Gulf Coast Research Laboratory Museum, Ocean Springs, USA

**GEA** – Laboratório de Ictiologia do Grupo de Ecologia Aquática, Universidade Federal do Pará, Belém, Brazil

**GVF** – George Vanderbilt Foundation, Stanford, USA [Specimens now at California Academy of Science]

**HUJ** – The Hebrew University of Jerusalem, Jerusalem, Israel

**HUMZ** – Hokkaido University Museum, Sapporo, Japan

**HVM** – Heda Village Museum, Heda, Shizuoka, Japan

**IC-MBP** – Marine Biology Station, National Institute of Biology, Piran, Slovenia

**IFAN** - Institut Fondamental d’Afrique noire Cheikh Anta Diop de Dakar, Senegal

**IFREDI-PO** – Inland Fisheries Research and Development Institute, Phnom Penh, Cambodia

**INHS** – Illinois Natural History Survey, University of Illinois at Urbana-Champaign, Champaign

**INPA** – Instituto Nacional de Pesquisas da Amazônia, Manaus, Brazil

**INVEMAR** – Instituto de Investigaciones Marinas y Costeras "José Benito Vives de Andréis", Museo de Historia Natural Marina de Colombia (MHNMC), Rodadero Sur, Santa Marta, Colombia

**IPPS** – Institut Penyelidikan Perikanan Sarawak [Fisheries Research Institute Sarawak (FRIS)], Kuching, Malaysia

**IRDN** – Institut de recherche pour le développement (IRD), Nouméa, New Caledonia

**IVPP** – Institute of Vertebrate Paleontology and Paleoanthropology, Chinese Academy of Sciences [Academia Sinica], Beijing, China

**JNC** – Unclear, may pertain to specimens in MNHN Paris

**JNU** – Fish Genetics and Breeding Laboratory, Jeju National University, Jeju City, Korea

**KA** – University of Canterbury, Edward Percival Field Centre, Kaikoura, New Zealand

**KAU** - King Abdulaziz University Marine Museum, Jeddah, Saudi Arabia

**KAUM** – Kagoshima University Museum, Kagoshima, Japan

**KBF-I** – Kuroshio Biological Research Foundation, Kochi, Japan

**KPM-NI** – Kanagawa Prefectural Museum of Natural History, Odawara. Includes: fishes fromt Izu Oceanic Park (IOP, IOPM), Ito, Shizuoka, Japan

**LACM** – Los Angeles County Museum of Natural History, Los Angeles, California, USA

**LBP** – Laboratório de Biologia e Genética de Peixes (LBGP), Departamento de Morfologia, Universidade Estadual Paulista "Júlio de Mesquita Filho" (UNESP), Campus de Botucatu

**LGE-P** – Laboratório de Genética de Peixes, Departamento de Biologia, Instituto de Biociências, Universidade Estadual Paulista "Júlio de Mesquita Filho" UNESP), Campus de Rio Claro, Brazil

**LJVC** – L. J. V. Compagno personal collection

**MBUCV** - Museo de Biología de la Universidad Central de Venezuela, Caracas, Venezula

**MCP** - Museu de Ciências e Tecnologia (MCT), Pontifícia Universidade Católica do Rio Grande do Sul (PUCRS), Porto Alegre, Rio Grande do Sul, Brazil

**MCZ** – Museum of Comparative Zoology, Harvard University, Cambridge, USA

**MEPN** – Museo de Historia Natural "Gustavo Orcés V.", Instituto de Ciencias Biológicas, Escuela Politécnica Nacional, Quito

**MEUFC** – Museum of the Systematics, Faculty of Fisheries, Mersin University, Mersin, Turkey

**MHNUSC** – Museo de Historia Natural da Universidade de Santiago de Compostela, Santiago de Compostela

**MNHM** – Musée d'Histoire Naturelle de Miguasha, Quebec, Canada

**MNHN** – Muséum national d'Histoire naturelle, Paris, France

**MNHNC** – Museo Nacional de Historia Natural, Santiago. Includes: fish collections from the Universidad de Chile, Santiago, Chile

**MNRJ** – Museu Nacional, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil

**MPEG** – Museu Paraense "Emilio Goeldi", Belém, Brazil

**RCMA (MRAC)** – Royal Museum for Central Africa [Musée royal de l'Afrique centrale (MRAC), Koninklijk Museum voor Midden-Afrika (KMMA)], Tervuren, Belgium

**MSCB** – Marine Science Center, University of Basra, Basra, Iraq

**MSL** – Marine Sciences Laboratory, Agriculture Faculty at Tishreen University, Latakia, Syria

**MSNC**– Museo di Storia Naturale di Comiso, Comiso, Italy

**MUFS** – Division of Fisheries Science, University of Miyazaki, Miyazaki, Japan

**MUSM** – Museo de Historia Natural, Universidad Nacional Mayor de San Marcos, Lima, Peru

**MZB** – Bidang Zoologi, Pusat Penelitian Biologi, Lembaga Ilmu Pengetahuan Indonesia (LIPI), Cibinong, Bogor Regency, Indonesia

**MZL** - Musée Cantonal de Zoologie, Lausanne, Switzerland

**MZUSP** - Museu de Zoologia da Universidade de São Paulo, São Paulo, Brazil

**NBFGR/PP**

**NHMUK** – Natural History Museum (London), London, United Kingrom

**NIBR** – National Institute of Biological Resources, Korean Ministry of the Environment, Incheon, South Korea

**NMMB-P** - National Museum of Marine Biology, Pingtung, Taiwan

**NMNHS** – National Museum of Natural History, Bulgarian Academy of Sciences, Sofia, Bulgaria

**NMNZ** - Museum of New Zealand Te Papa Tongarewa, Wellington, New Zealand

**NMS** – National Museum of Scotland, Edinburgh, Scotland, United Kingdom

**NMST-P** - National Science Museum, Department of Zoology, Tokyo, Japan

**NMV** – Museums Victoria, Melbourne, Australia

**NMW** – Naturhistorisches Museum, Wien [Vienna], Austria

**NRM** – Naturhistoriska riksmuseet [Swedish Museum of Natural History], Departments of Zoology and Paleontology, Stockholm, Sweden

**NSMT** –National Museum of Nature and Science, Zoology Department, Division of Fishes, Tsukuba, Ibaraki, Japan

**NTM S** – Museum and Art Gallery of the Northern Territory, Darwin, Australia

**NMW** – Naturhistorisches Museum, Vienna, Austria

**OMNH-P** – Osaka Museum of Natural History, Osaka, Japan

**ORID** – Oceanographic Research Institute, South African Association for Marine Biological Research (SAAMBR), Durban, South Africa

**OSUM** – Ohio State University Museum of Biological Diversity, Columbus, Ohio, USA

**PIMUZ** – Paläontologisches Institut und Museum der Universität Zürich, Zürich, Switzerland

**PKU** – Pukyong National University, Department of Marine Biology, Busan, South Kora

**PMBC** – Phuket Marine Biological Centre, Phuket, Thailand

**PSUZC** – Princess Maha Chakri Sirindhorn Natural History Museum, Prince of Songkla University in Hat Yai, Songkhla, Thailand

**PU/B92N** – Museum of Department of Ocean Studies and Marine Biology, Pondicherry University, Port Blair Campus, Andaman Islands

**PUMB** – Museum of Department of Ocean Studies and Marine Biology, Pondicherry University, Port Blair Campus, Andaman Islands

**RMNH** – Rijksmuseum van Natuurlijke Historie, Leiden, Netherland

**ROM** – Royal Ontario Museum, Toronto, Ontario

**RUSI/SAIAB –** South African Institute for Aquatic Biodiversity, Makhanda [Grahamstown], South Africa

**SAM** – South African Museum, Cape Town, South Africa

**SCUM** – Sichuan University Museum, Chengdu, China

**SFRI** – Institut Penyelidikan Perikanan Sarawak/Sarawak Fisheries Research Institute, Kuching, Malaysia

**SG** – S. H. Gruber personal collection

**SIO** – Scripps Institution of Oceanography, La Jolla, USA

**SM** – *Shoyo Maryu* field number

**SMBL-F** – Seto Marine Biological Laboratory of Kyoto University, Shirahama, Japan

**SMF** – Senckenberg Forschungsinstitut und Naturmuseum [Senckenberg Research Institute and Natural History Museum], Frankfurt am Main, Germany

**SMNK** – Staatliches Museum für Naturkunde Karlsruhe [Karlsruher Naturkundemuseum], Karlsruhe, Germany

**SNM** – Slovak National Museum [Slovenské národné múzeum], Natural Science Museum, Bratislava, Slovakia

**STRI** – Smithsonian Tropical Research Institute, Balboa, Panamá

**TAMAR** – Projeto Tamar, São João da Mata, Brazil

**TAMBL** – Toba Aquarium, Toba, Japan

**TAU** – Tel Aviv University, Tel Aviv, Israel

**TCWC** – Biodiversity Research and Teaching Collections (BRTC), Department of Wildlife and Fisheries Sciences, Texas A&M University, College Station, USA

**TMFE** – Elasmobranchii Collection, Department of Fisheries, Faculty of Marine Science and Technology, Tokai University, Shimizu, Shizuoka, Japan

**TU** – Tulane University, New Orleans, USA

**UCR** – Museo de Zoología, Escuela de Biología, Universidad de Costa Rica, Costa Rica

**UF** – Florida Museum of Natural History, Gainesville, Florida, USA

**UFBA** – Museu de Zoologia da Universidade Federal da Bahia, Salvador, Brazil

**UFRO** – Universidade Federal de Rondônia, Porto Velho, Brazil

**UMCZ** – University Museum of Zoology, University of Cambridge, Cambridge, United Kingdom

**UMML** – University of Miami Institute of Marine Science, Miami, USA

**UMMZ** – University of Michigan Museum of Zoology, Ann Arbor, USA

**UNC** – University of North Carolina at Chapel Hill, Institute of Marine Sciences, Morehead City

Note: these specimens now in the collections at the North Carolina Museum of Natural Sciences (NCSM), but the revised specimen numbers are unknown.

**UNPSJB** - Universidad Nacional de la Patagonia San Juan Bosco, Chubut Province, Argentina

**UNS** – University of Science, Hồ Chí Minh City, Vietnam

**URM-P** – Yoshino collection from the University of the Ryukyus, currently at Okinawa Churashima Foundation Research Center, Kunigami, Japan

**USNM** – Smithsonian National Museum of Natural History, Washington D.C., USA

**UWBM** – Burke Museum of Natural and Science, Seattle, USA

**WAM** ­– Western Australian Museum, Perth, Australia

**YCM** – Yokosuka City Museum, Yokosuka, Japan

**ZMA** – Former collections of the Zoölogisch Museum Amsterdam, Naturalis Biodiversity Center, Leiden, Netherlands

**ZMB** - Museum für Naturkunde, Berlin, Germany

**ZMH** – Centrum für Naturkunde (CeNak), Zoologisches Museum, Universität Hamburg, Hamburg, Germany

**ZMUB** - Bergen Museum, University of Bergen, Bergen, Norway

**ZRC** – Zoological Reference Collection, Lee Kong Chian Natural History Museum, Singapore

**ZSI** – Zoological Survey of India, Indian Museum, Kolkata, India

**ZSI/ANRC** – Zoological Survey of India, Port Blair, India

**ZSI/CLT** – Zoological Survey of India, Kozhikode, India

**ZSM** – Bavarian State Collections of Zoology, Munich, Germany

**ZUMT** – The University Museum, University of Tokyo, Tokyo, Japan

**ZVC** – Zoological Vertebrate Collection-Peces, Museum of Natural History, Montevideo, Uruguay

Every effort has been made to list the abbreviations used here, however given the large size of the dataset and the fact that many of these data come from the previously published literature rather than measured in person means that some may have slipped through the cracks. All specimens for which data was measured directly by the author have their specimen numbers listed. In the event that a specimen number is accidentally not listed here, please consult Sabaj (2020) for a comprehensive list of institutional abbreviations in ichthyology.

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# Basal Actinopterygii

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# Chondrichthyan Length-Weight Equations

Note: references here are for cases where weights were not already reported in the primary equations and were estimates from species-specific length-weight equations (or those for a closely related congeners if those were not available) in the previously published literature.

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