**PREPARED MATERIAL**

Actinopterygii: *Cladistii*: Polypteriformes: Polypteridae: *Polypterus senegalus*,LIRP 15711, 2, 57.4–119.2 mm SL, fixed in Mar 2018, stained in Oct 2018.

Actinopterygii: *Actinopteri*: Otomorpha: Clupeiformes: Clupeidae: *Harengula clupeola*, LIRP 1185, 1, 60.7 mm SL, fixed in Mar 1994, stained in Apr 2018. Engraulidae: *Anchoa marinii*, LIRP 4365, 1, 87.4 mm SL, fixed in Aug 1974, stained in Sep 2021; *Engraulis anchoita*, LIRP 15152, 1, 112.8 mm SL, fixed in Sep 2016, stained in Apr 2018. Pristigasteridae: *Chirocentrodon bleekerianus*, LIRP 2214, 2, 59.5–78.3 mm SL, fixed in Jul 2001, stained in Jul 2018; *Pellona flavipinnis*, LIRP 8747, 1, 123.4 mm SL, fixed in Jan 2011, stained in Apr 2018; *Pellona harroweri*, LIRP 9354, 1, 57.2 mm SL, fixed in Apr 2012, stained in Apr 2018. Gymnotiformes: Apteronotidae: *Apteronotus caudimaculosus*, LIRP 9655, 1, 95.0 mm SL, fixed in Oct 2011, stained in Aug 2019; *Sternarchella orthos*, LIRP 8754, 1, 120.6 mm SL, fixed in Jan 2011, stained in Aug 2019. Gymnotidae: *Gymnotus sylvius*, LIRP 3499, 2, 80.3–110.1 mm SL, fixed in Mar 2002, stained in Aug 2019. Hypopomidae: *Brachyhypopomus pinnicaudatus*, LIRP 6055, 2, 106.6–120.5 mm SL, fixed in Aug 2008, stained in Oct 2018. Rhamphichthyidae: *Gymnorhamphichthys petiti*, LIRP 11897, 1, 190.1 mm SL, fixed in Sep 2013, stained in Aug 2019; *Rhamphichthys hahni*, LIRP 9422, 1, 250.8 mm SL, fixed in Oct 2011, stained in Aug 2019. Sternopygidae: *Archolaemus luciae*, LIRP 14621, 1, 207.7 mm SL, fixed in Feb 2015, stained in Aug 2019; *Eigenmannia limbata*, LIRP 11628, 1, 92.5 mm SL, fixed in May 2010, stained in Aug 2019. Siluriformes: Ariidae: *Genidens genidens*, LIRP 8423, 2, 60.8–60.9 mm SL, fixed in Mar 2010, stained in Aug 2019. Auchenipteridae: *Auchenipterus nuchalis*, LIRP 13071, 1, 102.3 mm SL, fixed in Mar 2014, stained in Aug 2019. Callichthyidae: *Callichthys callichthys*, LIRP 2542, 2, 48.8–50.1 mm SL, fixed in Apr 2001, stained in Aug 2019. Cetopsidae: *Cetopsis coecutiens*, LIRP 589, 1, 126.8 mm SL, fixed in Nov 2008, stained in Aug 2019. Doradidae: *Amblydoras affinis*, LIRP 10665, 2, 27.7–27.8 mm SL, fixed in Jul 2013, stained in Aug 2019. Heptapteridae: “*Imparfinis*” *borodini*, LIRP 9205, 2, 80.4–82.1 mm SL, fixed in Jul 2012, stained in Aug 2019; *Rhamdia quelen*, LIRP 2465, 1, 56.2 mm SL, fixed in Aug 2000, stained in Oct 2018. Loricariidae: *Loricaria clavipinna*, LIRP 6748, 2, 113.8–117.6 mm SL, fixed in Aug 2007, stained in Aug 2019. Pimelodidae: *Sorubim lima*, LIRP 14527, 1, 54.9 mm SL, fixed in Nov 1990, stained in Sep 2021. Trichomycteridae: *Potamoglanis* *hasemani*, LIRP 7397, 1, 14.3 mm SL, fixed in Feb 2007, stained in Sep 2021; *Trichomycterus paolence*, LIRP 8274, 2, 70.2–70.6 mm SL, fixed in Sep 2011, stained in Oct 2018; *Vandellia sanguinea*, LIRP 7409, 2, 65.9–71.4 mm SL, fixed in Feb 2007, stained in Aug 2019. Characiformes: Acestrorhynchidae: *Acestrorhynchus falcatus*, LIRP 9130, 2, 81.4–104.8 mm SL, fixed in May 2010, stained in Nov 2018. Anostomidae: *Anostomus ternetzi*, LIRP 14643, 1, 61.2 mm SL, fixed in Feb 2015, stained in Sep 2018; *Leporellus vitattus*, LIRP 231, 2, 92.5–112.9 mm SL, fixed in Dec 1990, stained in Sep 2018; *Leporinus fasciatus*, LIRP 14617, 1, 71.9 mm SL, fixed in Feb 2015, stained in Sep 2018. Bryconidae: *Brycon falcatus*, LIRP 13045, 1, 67.9 mm SL, fixed in Mar 2014, stained in Sep 2018; *Brycon orthotaenia*, LIRP 1080, 2, 48.5–71.5 mm SL, fixed in Jan 1998, stained in Sep 2018; *Henochilus wheatlandii*, LIRP 15472, 1, 60.3 mm SL, fixed in Dec 2017, stained in Sep 2018; *Salminus hilarii*, LIRP 5911, 2, 48.1–108.7 mm SL, fixed in Aug 2006, stained in Sep 2018. Chalceidae: *Chalceus epakros*, LIRP 10561, 1, 77.7 mm SL, fixed in Jul 2013, stained in Sep 2018. Characidae:*Aphyocharax dentatus*, LIRP 9732, 1, 53.6 mm SL, fixed in Sep 2012, stained in Nov 2018; *Astyanax lacustris*, LIRP 2908, 1, 47.5 mm SL, fixed in Jul 1999, stained in Oct 2018; *Charax leticiae*, LIRP 9555, 1, 57.1 mm SL, fixed in Nov 2011, stained in Nov 2018; *Gymnocorymbus ternetzi*, LIRP 10966, 1, 37.6 mm SL, fixed in Sep 2013, stained in Nov 2018; *Hollandichthys multifasciatus*, LIRP 7503, 1, 44.1 mm SL, fixed in Jul 2008, stained in Nov 2018; *Jupiaba acanthogaster*, LIRP 8854, 1, 37.2 mm SL, fixed in Apr 2008, stained in Nov 2018; *Knodus moenkhausii*, LIRP 2276, 1, 37.8 mm SL, fixed in May 2000, stained in Nov 2018; *Oligosarcus pintoi*, LIRP 2402, 1, 50.3 mm SL, fixed in Aug 1999, stained in Nov 2018; *Tetragonopterus chalceus*, LIRP 10563, 1, 48.9 mm SL, fixed in Jul 2013, stained in Nov 2018. Chilodontidae: *Caenotropus schizodon*, LIRP 13721, 1, 71.0 mm SL, fixed in Mar 2014, stained in Sep 2018; *Chilobrycon deuterodon*, LIRP 8684, 2, 41.8–70.7 mm SL, fixed in Jul 2010, stained in Sep 2018. Crenuchidae: *Characidium fasciatum*, LIRP 4214, 1, 32.0 mm SL, fixed in Jun 2002, stained in Sep 2018. Ctenoluciidae: *Boulengerella cuvieri*, LIRP 11831, 1, 152.3 mm SL, fixed in Sep 2013, stained in Nov 2018. Curimatidae: *Curimata knerii*, LIRP 11231, 1, 75.6 mm SL, fixed in Sep 2013, stained in Apr 2018; *Cyphocharax gilbert*, LIRP 13788, 1, 37.3 mm SL, fixed in Jul 1991, stained in Apr 2018. Cynodontidae: *Hydrolycus tatauaia*, LIRP 11843, 1, 155.2 mm SL, fixed in Sep 2013, stained in Sep 2018. Erythrinidae: *Hoplerythrinus unitaeniatus*, LIRP 3945, 1, 59.2 mm SL, fixed in Jan 2002, stained in Apr 2018; *Hoplias aimara*, LIRP 9112, 2, 57.3–68.7 mm SL, fixed in May 2010, stained in Apr 2018. Gasteropelecidae: *Carnegiella strigata*, LIRP 13629, 1, 25.8 mm SL, fixed in Jan 2014, stained in Nov 2018; *Gasteropelecus sternicla*, LIRP 9540, 1, 28.8 mm SL, fixed in Oct 2011, stained in Nov 2018; *Thoracocharax stellatus*, LIRP 11389, 2, 38.6–49.07 mm SL, fixed in Jun 2014, stained in Nov 2018. Hemiodontidae: *Anodus elongatus*, LIRP 15910, 1, 136.7 mm SL, fixed in Nov 2018, stained in Aug 2019; *Argonectes longiceps*, LIRP 10734, 1, 98.8 mm SL, fixed in Jul 2013, stained in Apr 2018; *Bivibranchia fowleri*, LIRP 13747, 1, 71.3 mm SL, fixed in Dec 2013, stained in Apr 2018; *Hemiodus sterni*, LIRP 8293, 1, 70.0 mm SL, fixed in Jan 2009, stained in Apr 2018. Iguanodectidae: *Bryconops alburnoides*, LIRP 11271, 1, 36.8 mm SL, fixed in Sep 2013, stained in Sep 2018; *Iguanodectes geisleri*, LIRP 11594, 1, 52.2 mm SL, fixed in Sep 2013, stained in Sep 2018. Lebiasinidae: *Pyrrhulina australis*, LIRP 6049, 2, 32.9–35.9 mm SL, fixed in Aug 2007, stained in Apr 2018; *Lebiasina bimaculata*, LIRP 8159, 1, 60.1 mm SL, fixed in Jul 2010, stained in Apr 2018. Parodontidae: *Apareiodon ibitiensis*, LIRP 7718, 1, 49.4 mm SL, fixed in Jul 2010, stained in Apr 2018; *Parodon nasus*, LIRP 5919, 1, 49.1 mm SL, fixed in Oct 2007, stained in Apr 2018. Prochilodontidae:*Prochilodus argenteus*, LIRP 16924, 1, 40.5 mm SL, fixed in Aug 2009, stained in Apr 2018. Serrasalmidae: *Myleus setiger*, LIRP 11266, 1, 27.6 mm SL, fixed in Sep 2013, stained in Nov 2018; *Serrasalmus rhombeus*, LIRP 13029, 1, 45.8 mm SL, fixed in Mar 2014, stained in Sep 2018. Triportheidae: *Agoniates halecinus*, LIRP 12062, 1, 140.6 mm SL, fixed in Sep 2013, stained in Sep 2018; *Triportheus albus*, LIRP 13078, 1, 64.8 mm SL, fixed in May 2014, stained in Sep 2018.

Actinopterygii: Actinopteri: Euteleostei: Pleuronectiformes: Cyclopsettidae: *Syacium papillosum*, LIRP 16677, 1, 26.9 mm SL, fixed in Nov 2018, stained in Sep 2021. Cynoglossidae: *Symphurus tessellatus*, LIRP 15173, 1, 52.4 mm SL, fixed in Sep 2017, stained in Aug 2019. Paralichthyidae: *Paralichthys brasiliensis*, LIRP 12924, 1, 87.3 mm SL, fixed in Aug 2015, stained in Aug 2019. Gobiiformes: Gobiidae: *Oligolepis acutipennis*, LIRP 16414, 1, 53.2 mm SL, fixed in Jul 1978, stained in Jun 2019; *Oxyurichthys cornutus*, LIRP 16420, 1, 81.9 mm SL, fixed in May 1979, stained in Jun 2019; *Stenogobius genivittatus*, LIRP 16424, 1, 53.7 mm SL, fixed in Jan 1986, stained in Jun 2019.

Sarcopterygii: Tetrapoda: Amphibia: Caudata: Plethodontidae: *Eurycea bislineata*, CHRP 2239, 1, 34.6 mm snout–vent length (SVL), fixation date unknown, stained in Jun 2019.

Sarcopterygii: Tetrapoda: Amphibia: Anura: Hylidae: *Bokermannohyla hylax*, CHRP 2234, 1, 25.1 mm total length (TL), fixed in Feb 2020, stained in Sep 2021; *Bokermannohyla hylax*, CHRP 2235, 1, 34.3 mm TL, fixed in Feb 2020, stained in Sep 2021; *Bokermannohyla hylax*, CHRP 2236, 1, 38.4 mm SVL, fixed in Feb 2020, stained in Apr 2020.

Sarcopterygii: Tetrapoda: Sauria: Squamata: Gekkonidae: *Hemidactylus mabouia*, CHRP 2238, 1, 67.8 mm SVL, fixed in Nov 2020, stained in Sep 2021.