

Identification key to *Campylomormyrus* species

English key based on Poll, Gosse and Orts (1982), pp. 23–25. This key covers the 14 species recognized in that paper. Start at 1; compare a and b using all listed characters, then follow the indicated number. For overlapping ranges or boundary values, examine both routes and confirm using later characters. All proportions are ratios, not increases in length.

- 1a** 12 scales around the caudal peduncle (exceptionally 11 or 14). **Go to 2.**
- 1b** 16–22 scales around the caudal peduncle. **Go to 8.**
- 2a** Caudal peduncle at least 3 times as long as deep. Snout inclination 35° or more (35–82°). **Go to 3.**
- 2b** Caudal peduncle less than 3 times as long as deep. Snout inclination less than 35° (20–30°). ***C. orycteropus*.**
- 3a** Snout 4–6.3 times as long as deep. Postorbital standard length 3.5–4.5 times body depth. **Go to 4.**
- 3b** Snout 2–4 times as long as deep. Postorbital standard length 2.8–3.8 times body depth. **Go to 6.**
- 4a** Snout inclination 47–82°. Dorsal-fin rays 29–34; anal-fin rays 33–35. **Go to 5.**
- 4b** Snout inclination 35–46°. Dorsal-fin rays 26–31; anal-fin rays 29–33. ***C. tamandua*.**
- 5a** Snout inclination 63–82°. Snout length 1.2–1.5 times postorbital head length. Chin appendage shorter than the eye diameter (0.5–0.7 times its diameter) and inserted above the lower lip. Dorsal-fin rays 32–34. ***C. christyi*.**
- 5b** Snout inclination 47–55°. Snout length 1.5–2 times postorbital head length. Chin appendage 0.7–1.4 times the eye diameter and forming a direct continuation of the lower lip. Dorsal-fin rays 29–30. ***C. phantasticus*.**
- 6a** Chin appendage approximately as long as the eye diameter (0.7–1.5 times its diameter; see editorial note). Standard length 5.7–8.5 times snout length. **Go to 7.**
- 6b** Chin appendage 1.9–7.8 times the eye diameter. Standard length 5.2–5.7 times snout length. ***C. mirus*.**
- 7a** Standard length 5.8–7.3 times snout length. Chin appendage blunt, not tapered, 0.9–1.5 times the eye diameter, and usually inserted above the lower lip. Postorbital standard length 3.3–3.8 times body depth. Snout inclination 35–61°. ***C. elephas*.**
- 7b** Standard length 7–8.5 times snout length. Chin appendage tapered and pointed, 0.7–1.3 times the eye diameter, and not inserted above the lower lip. Postorbital standard length 2.8–3.3 times body depth. Snout inclination 56–71°. ***C. alces*.**
- 8a** Snout less than 4 times as long as deep. Standard length 5–7.2 times snout length. **Go to 9.**
- 8b** Snout more than 4 times as long as deep. Standard length 2.8–5.3 times snout length. **Go to 10.**
- 9a** Caudal peduncle 2.2–2.8 times as long as deep, with 20–22 scales around it. Snout inclination 20–40°. Dorsal-fin rays 27–29; anal-fin rays 30–31. More than 100 scales in a longitudinal series. ***C. bredoi*.**
- 9b** Caudal peduncle 3–3.4 times as long as deep, with 16 scales around it. Snout inclination 45–50°. Dorsal-fin rays 31; anal-fin rays 33–35. Scales in a longitudinal series 76–78. ***C. cassaicus*.**
- 10a** Snout length 1.6–2 times postorbital head length, 4.4–6.8 times snout depth, and 4.6–8.8 times the eye diameter. Snout inclination 40–67°. **Go to 11.**
- 10b** Snout length 2–5 times postorbital head length, 5.9–19 times snout depth, and 5.7–19 times the eye diameter. Snout inclination 25–60°. **Go to 12.**
- 11a** Snout inclination 40–50°. Vertebrae 46–47 in total, including 4–5 intermediate vertebrae. Caudal peduncle 3–3.8 times as long as deep. ***C. rhynchophorus*.**
- 11b** Snout inclination 65–67°. Vertebrae 44–45 in total, including 3 intermediate vertebrae. Caudal peduncle 2.3–2.8 times as long as deep. ***C. luapulaensis*.**
- 12a** Dorsal-fin rays 31–32; anal-fin rays 35–36. Snout length 7.5–19 times snout depth and 6–19 times the eye diameter. **Go to 13.**
- 12b** Dorsal-fin rays 28–30; anal-fin rays 30–34. Snout length 5.9–9 times snout depth and 5.7–12 times the eye diameter. ***C. tshokwe*.**
- 13a** Distance between the posterior nostril and the eye 0.4–1.3 times the eye diameter. Postorbital head length 2–3.7 times the eye diameter. Vertebrae 45–46 in total. ***C. numenius*.**
- 13b** Distance between the posterior nostril and the eye 1.3–3.6 times the eye diameter. Postorbital head length 3.1–6.2 times the eye diameter. Vertebrae 49–50 in total. ***C. curvirostris*.**

Measurement terms: Postorbital standard length is measured from the posterior eye margin to the caudal-fin base; postorbital head length is measured from the eye to the upper origin of the opercular opening. See the source, pp. 5–6 and Fig. 1, for measurement methods. Fin-ray counts include anterior unbranched rays.

Editorial note: In 6a, 0.7–1.5 replaces the original 0.7–1.3 to include *C. elephas* in 7a (also supported by the species account, p. 8). Other ranges follow the published key. At 8, a snout length-to-depth ratio of exactly 4 is unassigned in the source; examine both routes. Overlaps, especially at 3 and 10, may prevent an unambiguous identification. Species authorships are omitted uniformly.

Source: Poll, M., Gosse, J.-P. & Orts, S. (1982). Le genre *Campylomormyrus* Bleeker, 1874, étude systématique et description d'une espèce nouvelle (Pisces, Mormyridae). Bulletin de l'Institut royal des Sciences naturelles de Belgique, Biologie, 54(5), key pp. 23–25.