

TABLE S1 | Landmark definition.

| | Landmark definition |
|----|-------------------------------------|
| 1 | Snout tip |
| 2 | Lip fold |
| 3 | Anterior point of the eye |
| 4 | Posterior point of the eye |
| 5 | Posterior border of the preopercle |
| 6 | Most posterior point of the opercle |
| 7 | Head insertion |
| 8 | Anterior insertion of dorsal fin |
| 9 | Posterior insertion of dorsal fin |
| 10 | Dorsal insertion of caudal fin |
| 11 | Last scale in lateral line |
| 12 | Ventral insertion of caudal fin |
| 13 | Posterior insertion of anal fin |
| 14 | Anterior insertion of anal fin |
| 15 | Posterior insertion of pelvic fin |
| 16 | Ventral insertion of pectoral fin |
| 17 | Dorsal insertion of pectoral fin. |



This is an open access article under the terms of the Creative Commons Attribution License, which permits use, distribution and reproduction in any medium, provided the original work is properly cited.

Distributed under Creative Commons CC-BY 4.0

© 2022 The Authors. Diversity and Distributions Published by SBI



Official Journal of the Sociedade Brasileira de Ictiologia

HOW TO CITE THIS ARTICLE

- **Ardón DA, McMahan CD, Velázquez-Velázquez E, Matamoros WA.** Testing spatial and environmental factors to explain body shape variation in the widespread Central American Blackbelt cichlid *Vieja maculicauda* (Teleostei: Cichlidae). *Neotrop Ichthyol.* 2022; 20(2):e210139. <https://doi.org/10.1590/1982-0224-2021-0139>