Table S1. List of localities, their respective number of sequences (NS), their accession numbers to GenBank, and references of *Coptodon rendalli* populations per location.

|  |  |  |  |
| --- | --- | --- | --- |
| localities | NS | Sequences reference number (COI) | Reference |
| South Africa | 21 | HQ959717, HQ959715, HQ567376, HM914644, HM914635, HM914634, HM914633, HM914631. (PP352615, PP352616, PP352617, PP352618, PP352619, PP352620, PP352621, PP352622, PP352623, PP352624, PP352625, PP352626, PP352627) | Van der Bank et al., 2010, Unpublished; (Current study) |
| Namibia | 1 | HM394826  | Van der Bank et al., 2009, Unpublished |
| Democratic Republic of the Congo | 2 | KT193490, KT193036  | Decru et al., 2015. |
| Thailand | 6 | MK049496, MK049495, MK448081, MG438463, MG438462, MG438461,  | Panprommin et al., 2019 |
| Mauritania | 1 | KJ938227, | Kide et al., 2016 |
| Colombia | 3 | KY454446, KY454445, KY454444,  | Montoya et al., 2017; Unpublished |
| Tanzania | 6 | KU193980, OP680724, OP680725, OP680726, OP680727, OP680728 | Breman et al., 2016; Chuhila et al., 2022  |
| Brazil | 9 | JN989250, JN989249, JN989248, JN989247, JN989246, JN989245, JN989244, JN989243, MN879922, | Pereira et al., 2013 |
| Madagascar | 36 | ON604143, ON604142, ON604141, ON604140, ON604139, ON604138, ON604137, ON604136, ON604135, ON604134, ON604133, ON604132, ON604131, ON604130, ON604129, ON604128, ON604127, ON604126, ON604125, ON604124, ON604123, ON604122, ON604121, ON604120, ON604119, ON604118, ON604117, ON604116, ON604115, ON604114, ON604113, ON604112, ON604111, ON604110, ON604109, ON604108. | Vences et al., 2022 |
| Mozambique | 1 | MZ269459  | Ferrari et al., 2021; Unpublished |
| Panama | 4 | MT418502, MT418503, MZ269460, MT418504,  | Diaz-Ferguson, 2021; Unpublished |

Table S1. List of localities, their respective number of sequences (NS), references, and their accession numbers to GenBank

|  |  |  |  |
| --- | --- | --- | --- |
| localities | NS | Sequences reference number (D-loop) | Reference |
| South Africa | 20 | PP350705, PP350706, PP350707, PP350708, PP350709, PP350710, PP350711, PP350712, PP350713, PP350714, PP350715, PP350716, PP350717, PP350718, PP350719, PP350720, PP350721, PP350722, PP350723, PP350724 | Current study |
| Zimbabwe | 3 | AF296505, AF296503, AF328854  | Nagl et al., 2001 |
| Mauritania | 1 | KJ925075  | Durand et al., 2015 |
| Tanzania | 6 | MH644435, MH644434, MH644433, MH644432, MH644431, MH644430. | Moser et al., 2018 |

Table S3. Heatmap of pairwise FST values estimated from mitochondrial DNA COI sequence data. \*indicates significant difference (P < 0.05)

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | South Africa | Namibia | D.R. Congo | Mauritania | Tanzania | Madagascar | Mozambique | Colombia | Brazil | Panama | Thailand |
| South Africa | 0 |   |   |   | \* |   |   |   | \* |   | \* |
| Namibia | -0.9479 | 0 |   |   |   |   |   |   |   |   |   |
| D.R. Congo | 0.3672 | -1 | 0 |   |   | \* |   |   | \* |   | \* |
| Mauritania | -0.9479 | 0 | -1 | 0 |   |   |   |   |   |   |   |
| Tanzania | 0.79484 | 0.63118 | 0.44533 | 0.63118 | 0 | \* |   | \* | \* | \* | \* |
| Madagascar | 0.06064 | 0 | 0.89729 | 0 | 0.94808 | 0 |   |   | \* |   | \* |
| Mozambique | -0.9479 | 0 | -1 | 0 | 0.63118 | 0 | 0 |   |   |   |   |
| Colombia | -0.17588 | 0 | 0.25 | 0 | 0.74763 | 0 | 0 | 0 | \* |   | \* |
| Brazil | 0.66997 | 0.55354 | 0.44841 | 0.55354 | 0.61116 | 0.90549 | 0.55354 | 0.6691 | 0 | \* |   |
| Panama | -0.11863 | 0 | 0.38462 | 0 | 0.77594 | 0 | 0 | 0 | 0.69587 | 0 | \* |
| Thailand | 0.73459 | 1 | 0.73383 | 1 | 0.73561 | 1 | 1 | 1 | -0.05109 | 1 | 0 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | South Africa | Zimbabwe | Mauritania | Tanzania |
| South Africa | 0 | \* |   | \* |
| Zimbabwe | 0.88833 | 0 |   |   |
| Mauritania | 0.84254 | 0.9375 | 0 |   |
| Tanzania | 0.91436 | 0.67568 | 1 | 0 |

Table S4. Heatmap of pairwise FST values estimated from mitochondrial DNA D-loop sequence data. \*indicates significant difference (P < 0.05)



**Fig. S1.** Mismatch distributions from COI and D-loop sequences for *Coptodon rendalli* populations per location.

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