Jakob Hallermann, Oliver Hawlischek

**Supplementary Material:** Specimens used for genetic analyses and corresponding GenBank accession numbers. See Materials and Methods for collection abbreviations. Field number acronyms follow as: ELI and/or EBG: Eli Greenbaum; AMB and/or MCZ-F: Aaron M. Bauer; JH: Jakob Hallerman; ANS and/or RE: Raffael Ernst; JVV: Jens J. Vindum, WC: Werner Conradie; PVP and/or LN: Pedro Vaz Pinto; ANG and/or AG: Bill Branch, TMHC: Tomáš Mazuch Herpetological Collection.

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| **Species** | **Country:****Locality** | **Tissue ID** | **Field** **Number** | **Catalogue Number** | **16S** | **Reference** |
| *Boaedon angolensis* | ANGOLA: Uige (town), Campus - Fazenda, Universidade Kimpa Vita, Uige Province | JH53 | — | MTD 48606 \***Neotype** | MT577727 | Hallermann et al. 2020 |
| *Boaedon angolensis* | ANGOLA: Planalto de Mucaba, Municipality Mucaba, Uige Province | JH54 | — | MTD 48960\* | MT577728 | Hallermann et al. 2020 |
| *Boaedon angolensis* | ANGOLA: road near Quipembe, Uige Province | JH56 | ANS02 | MTD 49253\* | MT577729 | Hallermann et al. 2020 |
| *Boaedon angolensis* | ANGOLA: Bola-Cassaxi, Cangandala National Park, Malanje Province | — | JVV 9513 | CAS 262315\* | MT577730 | Hallermann et al. 2020 |
| *Boaedon angolensis* | ANGOLA: Lauca, Malanje Province | — | AMB9711 | MB03-001241\* | MT577731 | Hallermann et al. 2020 |
| *Boaedon angolensis* | ANGOLA: South Bicuar Park, Huila Province | — | AMB10674 | CAS 262843\* | MT577732 | Hallermann et al. 2020 |
| *Boaedon angolensis* | ANGOLA: Menongue River, Cuanda Cubango Province | — | — | PEM R23403\* | MT577733 | Hallermann et al. 2020 |
| *Boaedon angolensis* | ANGOLA: 65 km south of Menongue, Cuanda Cubango Province | — | WC-4153 | PEM R23251\* | MT577734 | Hallermann et al. 2020 |
| *Boaedon angolensis* | ANGOLA: Ngola, Huila Province | — | PVP 43\* | — | MT577736 | Hallermann et al. 2020 |
| *Boaedon angolensis* | ANGOLA: Longonji, Huambo Province | — | El\_0890\* | — | MT577737 | Hallermann et al. 2020 |
| *Boaedon angolensis* | DEMOCRATIC REPUBLIC OF CONGO: Kwango Province | 01 02 03 04 05 06 07 08 |  | 2028ZAE85 2028ZAE94 2028ZAE93 2028ZAE92 2028ZAE91 2028ZAE90 2028ZAE89 2028ZAE88 | PQ408554PQ408555PQ408556PQ408557 | this paper |
| *Boaedon bocagei* | ANGOLA: Samba, Luanda Province | — | LN19 | PEM R22042 **Paratype**  | MT577738 | Hallermann et al. 2020 |
| *Boaedon bocagei* | ANGOLA: Samba, Luanda Province | — | LN20 | PEM R22043 **Paratype** | MT577739 | Hallermann et al. 2020 |
| *Boaedon bocagei* | ANGOLA: Kissama National Park at Kawa Camp, Bengo Province | — | AMB10121 | CAS 262799 **Holotype**  | MT577740 | Hallermann et al. 2020 |
| *Boaedon branchi*  | ANGOLA: 47.5 km E of Menongue on road to Cuito Cuanavale, Cuanda Cubango Province | — | ANG15\_56 | PEM R21846 **Holotype** | MT577741 | Hallermann et al. 2020 |
| *Boaedon branchi*  | ANGOLA: Longa River, Cuando Cubango Province | — | WC-4652 | PEM R23538 **Paratype** | MT577742 | Hallermann et al. 2020 |
| *Boaedon boadleyi* **sp*. nov****.*  | ETHIOPIA: Addis Ababa | JH10 | — | ZMH R08485 **Holotype** | MT577794 | Hallermann et al. 2020 |
| *Boaedon broadleyi* **sp*. nov****.*  | ETHIOPIA: Addis Ababa | JH 59 | — | ZMH R11333 P**apatype** | MT577795 | Hallermann et al. 2020 |
| *Boaedon broadleyi* **sp*. nov****.* | ETHIOPIA: Yabello, Oromiya region |  |  | TMHC 2021.05.976 | PQ408552 | this paper |
| *Boaedon capensis* - Clade A | TANZANIA: No specific locality known | JH17\* | — | — | MT577751 | Hallermann et al. 2020 |
| *Boaedon capensis* - Clade A | TANZANIA: Arusha, Northern Tanzania | JH48\* | — | — | MT577752 | Hallermann et al. 2020 |
| *Boaedon capensis* - Clade A | TANZANIA: Arusha, Northern Tanzania | JH49\* | — | — | MT577753 | Hallermann et al. 2020 |
| *Boaedon capensis* - Clade A | KENYA:No specific localitiesknown | JH37\* | — | — | MT577755 | Hallermann et al. 2020 |
| *Boaedon capensis* - Clade A | KENYA:No specific localitiesknown | JH38\* | — | — | MT577756 | Hallermann et al. 2020 |
| *Boaedon capensis* - Clade A | KENYA:No specific localitiesknown | JH39\* | — | — | MT577757 | Hallermann et al. 2020 |
| *Boaedon capensis* - Clade A | SOUTH AFRICA: 58 km E Tshipise, Limpopo Province | JH24 | AMB6122\* | — | MT577758 | Hallermann et al. 2020 |
| *Boaedon capensis* - Clade A | MOSAMBIQUE: Zambezi delta, Lacerdónia, Sofala Province |  |  | PEM R15002 | AY611895 | Vidal et al. 2008  |
| *Boaedon capensis* - Clade A | MOSAMBIQUE: Niassa Province |  |  | PEM R16201  | FJ404201 | Vidal et al. 2008 |
| *Boaedon capensis* - Clade A | TANZANIA: Eastern Tanzania | JH 55 | — | ZMH R11346\* | MT577754 | Hallermann et al. 2020 |
| *Boaedon capensis* - Clade B | TANZANIA: Eastern Tanzania | JH2\* | — | — | MT577743 | Hallermann et al. 2020 |
| *Boaedon capensis* - Clade B | TANZANIA: No specific locality known | — | — | — | Z46489\* | Heise et al. 1995 |
| *Boaedon capensis* - Clade B | SOUTH AFRICA: 24 km W of Tolwe junction on road to Swartwater, Limpopo Province | JH35 | MCZ F38826 | CAS 234178\* | MT577744 | Hallermann et al. 2020 |
| *Boaedon capensis* - Clade B | SOUTH AFRICA: 24 km W Tolwe junctionon road Limpopo Province to Swartwater, | JH36 | MCZ F38823 | CAS 234177\* | MT577745 | Hallermann et al. 2020 |
| *Boaedon capensis* - Clade B | NAMIBIA: 14.4 km E Kamanjab, Kunene Region | JH26 | AMB6883\* | — | MT577746 | Hallermann et al. 2020 |
| *Boaedon capensis* - Clade B | NAMIBIA: 13.9 km E Kamanjab, Kunene Region | JH27 | AMB6884 | CAS 223957\* | MT577747 | Hallermann et al. 2020 |
| *Boaedon capensis* - Clade B | KENYA: no specific locality | 10 |  | 2028ZAE086 | PQ408563 | this paper |
| *Boaedon capensis* - Clade B | KENYA: no specific locality | 9 |  | 2028ZAE087 | PQ408562 | this paper |
| *Boaedon capensis* - Clade B | KENYA: Mount Kenia Region | JH 56 | — | ZMH R11338\* | MT577748 | Hallermann et al. 2020 |
| *Boaedon capensis* - Clade C | SOUTH AFRICA: Northern Cape Province | JH13 | — | ZMH R08484\* | MT577749 | Hallermann et al. 2020 |
| *Boaedon capensis* - Clade C | SOUTH AFRICA: KwaZulu-Natal Province | JH46\* | — | — | MT577750 | Hallermann et al. 2020 |
| *Boaedon fradei*  | ANGOLA: Kembo River source, Moxico Province | — | WC-4667 | PEM R23486 **Paratype** | MT577759 | Hallermann et al. 2020 |
| *Boaedon fradei*  | ANGOLA: Kembo River source, Moxico Province | — | WC-4699 | PEM R23487 **Holotype** | MT577760 | Hallermann et al. 2020 |
| *Boaedon fradei* | ANGOLA: Lungue Bungu River , Moxico Province | — | WC-6320 | PEM R23985 **Paratype** | MT577761 | Hallermann et al. 2020 |
| *Boaedon fradei*  | ANGOLA: Saurimo, Lunda Sul Province | — | El\_0761 | — | MT577762 | Hallermann et al. 2020 |
| *Boaedon fradei*  | ANGOA:Saurimo, Lunda Sul Province | — | El\_0762 | — | MT577763 | Hallermann et al. 2020 |
| *Boaedon fuliginosus* | GAMBIA: Kartong, at border to Casamanse, Senegal | A22 | — | — | MT577764 | Hallermann et al. 2020 |
| *Boaedon* | GAMBIA: Kartong, at | B23 | — | — | MT577765 | Hallermann et al. 2020 |
| *fuliginosus* | border to Casamanse, Senegal |   |   |   |   |   |
| *Boaedon fuliginosus* | GAMBIA: Kartong, at border to Casamanse, Senegal | C24 | — | — | MT577766 | Hallermann et al. 2020 |
| *Boaedon fuliginosus* | GAMBIA: Kartong, at border to Casamanse, Senegal | D25 | — | — | MT577767 | Hallermann et al. 2020 |
| *Boaedon fuliginosus* | GAMBIA: Kartong, at border to Casamanse, Senegal | F27 | — | — | MT577768 | Hallermann et al. 2020 |
| *Boaedon fuliginosus* | GAMBIA: Kartong, at border to Casamanse, Senegal | G28 | — | — | MT577769 | Hallermann et al. 2020 |
| *Boaedon fuliginosus* | MOROCCO: 99 m after the marker stone, 13 km on the road from Guelmin to Sidi Ifni | JH51 | — | BEV 9426 | MT577770 | Hallermann et al. 2020 |
| *Boaedon fuliginosus* | GUINEA: Sintiou, Mali Region | — | RE 423 | IRD 4815.G | KX249782 | Trape and Mediannik ov (2016) |
| *Boaedon fuliginosus* | IVORY COAST: Drekro, Sakassou Region | — | RE 545 | IRD CI.212 | KX249802 | Trape and Mediannik ov (2016) |
| *Boaedon lineatus* | GAMBIA: Kartong, at border to Casamanse, Senegal | H29 | — | — | MT577772 | Hallermann et al. 2020 |
| *Boaedon lineatus* | GAMBIA: Kartong, at border to Casamanse, Senegal | I30 | — | — | MT577773 | Hallermann et al. 2020 |
| *Boaedon lineatus* | TOGO: Mont Agou | — | RE544 | IRD T.268 | KX249801 | Trape and Mediannik ov (2016) |
| *Boaedon lineatus* | GUINEA: Sintiou, Mali Region | — | RE 424 | IRD 4840.6 | KX249783 | Trape and Mediannik ov (2016) |
| *Boaedon bocagei* | ANGOLA: Samba, Luanda Province | — | LN19 | PEM R22042 **Paratype**  | MT577738 | Hallermann et al. 2020 |
| *Boaedon bocagei* | ANGOLA: Samba, Luanda Province | — | LN20 | PEM R22043 **Paratype**  | MT577739 | Hallermann et al. 2020 |
| *Boaedon bocagei* | ANGOLA: Kissama National Park at Kawa Camp, Bengo Province | — | AMB10121 | CAS 262799 **Holotype**  | MT577740 | Hallermann et al. 2020 |
| *Boaedon littoralis* | DEMOCRATIC REPUBLIC OF CONGO: Muanda |  | RE652\_BOALIT |  | ON985222 | this paper |
| *Boaedon paralineatus* | CHAD: Baibokoum, Logone Occidental Region | — | RE 492 | IRD 2069.N | KX249786 | Trape and Mediannik ov (2016) |
| *Boaedon paralineatus* | CHAD: Baibokoum, Logone Occidental Region | — | RE 493 | IRD 2113.N | KX249787 | Trape and Mediannik ov (2016) |

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| *Boaedon paralineatus* | CHAD: Baibokoum, Logone Occidental Region | — | RE 494 | IRD 2153.N | KX249788 | Trape and Mediannik ov (2016) |
| *Boaedon paralineatus* | CHAD: Baibokoum, Logone Occidental Region | — | RE 495 | IRD 2155.N | KX249789 | Trape and Mediannik ov (2016) |
| *Boaedon longilineatus* | CHAD: Fieng bac, Mayo-Kebbi East Region | — | RE 524 | IRD 2521.N | KX249798 | Trape and Mediannik ov (2016) |
| *Boaedon longilineatus* | CHAD: Fieng bac, Mayo-Kebbi East Region | — | RE 525 | IRD 2553.N | KX249799 | Trape and Mediannik ov (2016) |
| *Boaedon longilineatus* | CHAD: Zama Gouin, Mayo-Kebbi West Region | — | RE 526 | IRD 2558.N | KX249800 | Trape and Mediannik ov (2016) |
| *Boaedon mentalis*  | SOUTH AFRICA: Springbok, Northern Cape Province | JH21 | — | — | MT577774 | Hallermann et al. 2020 |
| *Boaedonmentalis*   | SOUTH AFRICA: Springbok, Northern Cape Province | JH23 | — | — | MT577775 | Hallermann et al. 2020 |
| *Boaedon mentalis*  | NAMIBIA: Oranje River Region, Karas Region | JH 62 | — | ZMH R11352 | MT577776 | Hallermann et al. 2020 |
| *Boaedon mentalis*  | SOUTH AFRICA: 2 km E Carolusberg Road on N14 towards Aggenys, Northern Cape Province | JH32 | MCZ F38406 | MCZ R184754 | MT577777 | Hallermann et al. 2020 |
| *Boaedonmentalis* –  | SOUTH AFRICA: 34 km W Pofadder on road N 14, Northern Cape Province | JH33 | MCZ F38448 | MCZ R184786 | MT577778 | Hallermann et al. 2020 |
| *Boaedonmentalis*   | ANGOLA: 1.1 km N Junction of Farm Mucungo and main road, Namibe Province | — | AG 165 | — | MT577779 | Hallermann et al. 2020 |
| *Boaedonmentalis*  | ANGOLA: W (24 km N) on new tar road to Lucira from Lubango-Namibe road, Namibe Province | — | ANG0254 | PEM R21606 | MT577780 | Hallermann et al. 2020 |
| *Boaedonmentalis* –  | NAMIBIA: 60.6 km N Kamanjab, Kunene Region | JH31 | MCZ Z38926 | MCZ R186012 | MT577781 | Hallermann et al. 2020 |
| *Boaedon montanus* | UGANDA: Lake Victoria, northern coast | JH1 | — | — | MT577788 | Hallermann et al. 2020 |
| *Boaedon montanus* | UGANDA: Lake Victoria, northern coast | JH12 | — | ZMH R08487 | MT577789 | Hallermann et al. 2020 |
| *Boaedon montanus* | UGANDA: Lake Victoria, northern coast | JH15 | — | ZMH R08488 | MT577790 | Hallermann et al. 2020 |
| *Boaedon montanus* | UGANDA: Lake Victoria, northern coast | JH63 | — | ZMH R11332 | MT577791 | Hallermann et al. 2020 |
| *Boaedon montanus* | UGANDA: Lake Victoria, northern coast | JH64 | — | ZMH R11335 | MT577792 | Hallermann et al. 2020 |
| *Boaedon montanus* | TANZANIA: Kilimanjaro, above tree line | JH45 | — | ZMH R09279 | MT577793 | Hallermann et al. 2020 |
| *Boaedon montanus* | TANZANIA: No specific locality known | — | — | (GenBank as *fuliginosus*) | AY188079 | Nagy et al. 2003 |
| *Boaedonmentalis* | SOUTH AFRICA ?:captive born |  |  |  | FJ404206 | Vidal et al. 2008 |
| *Boaedon olivaceus* | ANGOLA: Kihuamba, Uige Province | JH55 | *—* | MTD 48990 | MT577782 | Hallermann et al. 2020 |
| *Boaedon olivaceus* | ANGOLA: Uige, Makela do Sombo, Beu, near Bairro Quivelu, Uíge Province | JH57 | ANS0118 | MTD 49657 | MT577783 | Hallermann et al. 2020 |
| *Boaedon olivaceus* | DEMOCRATIC REPUBLIC OF CONGO: Watsi Kengo, Equateur Province | — | ELI 2497 | UTEP 21000 | MT577784 | Hallermann et al. 2020 |
| *Boaedon olivaceus* | DEMOCRATIC REPUBLIC OF CONGO: Npenda, Equateur Province | — | ELI 2225 | UTEP 20999 | MT577785 | Hallermann et al. 2020 |
| *Boaedon olivaceus* | No locality | — | — | IPMB J289 | AY611862 | Vidal et al. 2008 |
| *Boaedon perisilvestris* | DEMOCRATIC REPUBLIC OF CONGO: Kinshasa, Kinshasa Province | JH8 | — | — | MT577786 | Hallermann et al. 2020 |
| *Boaedon perisilvestris* | REPUBLIC OF THE CONGO: Brazzaville, Brazaville Province | TR4231 | RE 425 | IRD TR.4232 | KX249785 | Trape and Mediannik ov (2016) |
| *Boaedon perisilvestris* | REPUBLIC OF THE CONGO: Brazzaville, Brazaville Province | TR4232 | RE426 | IRD TR.4231 | KX249784 | Trape and Mediannik ov (2016) |
| *Boaedon perisilvestris* | CHAD: Baibokoum, Logone Occidental Region | — | RE 501 | IRD 2191.N | KX249794 | Trape and Mediannik ov (2016) |
| *Boaedon radfordi* | DEMOCRATIC REPUBLIC OF CONGO: Irangi, South Kivu Province | JH28 | EBG1288 | UTEP 20998 | MT577787, | Hallermann et al. 2020 |
| *Boaedon subflavus* | CHAD: Baibokoum, Logone Occidental Region | — | RE 496 | IRD 2105.N | KX249790 | Trape and Mediannik ov (2016) |
| *Boaedon subflavus* | CHAD: Baibokoum, Logone Occidental Region | — | RE 499 | IRD 2287.N | KX249793 | Trape and Mediannik ov (2016) |
| *Boaedon subflavus* | CHAD: Baibokoum, Logone Occidental Region | — | RE 497 | IRD 2154.N | KX249791 | Trape and Mediannik ov (2016) |
| *Boaedon subflavus* | CHAD: Baibokoum, Logone Occidental Region | — | RE 498 | IRD 2188.N | KX249792 | Trape and Mediannik ov (2016) |
| *Boaedon subflavus* | CHAD: Balani, Mayo- Kebbi West Region | — | RE 522 | IRD 2566.N | KX249797 | Trape and Mediannik ov (2016) |
| *Boaedon subflavus* | CHAD: Yamba Tschangsou, Mayo- Kebbi West Region | — | RE 520 | IRD 2518.N | KX249795 | Trape and Mediannik ov (2016) |
| *Boaedon subflavus* | CHAD: Tikem, Mayo- Kebbi West Region | — | RE 521 | IRD 2520.N | KX249796 | Trape and Mediannik ov (2016) |
| *Boaedon subflavus* | CAMEROON: no specific locality |  |  | In genbank as *L. lineatus* | FJ404205 | Vidal et al. 2008 |
| *Boaedon subniger* ***sp.nov****.* | SOMALIA: Yuffleh Sanaag region | 2023.01.1018 | TMHC 2023.01.1018 | ZMH R22350 | PQ408553 | this paper |
| *Boaedon variegatus* | ANGOLA: 2 km N Junction of Farm Mucungo and main road, Namibe Province | — | AG 185 | PEM R16269 | MT577796 | Hallermann et al. 2020 |
| *Boaedon variegatus* | ANGOLA: Chimalavera, Benguela Province | 2918198/29918246 | AMB10005 | CAS 262842 | MT577797 | Hallermann et al. 2020 |
| *Boaedon variegatus* | ANGOLA:N’Donlondolo, Namibe Province | 2918247 | AMB10306 | CAS 263027 | MT577798 | Hallermann et al. 2020 |
| *Boaedon variegatus* | NAMIBIA: Farm Varianto, Oshikoto Region | JH34 | MCZF38514 | MCZ R184869 | MT577799 | Hallermann et al. 2020 |
| *Boaedon variegatus* | NAMIBIA: Waterberg guest Farm,Otjozondjupa Region | JH30 | MCZ38511 | MCZ R184866 | MT577801 | Hallermann et al. 2020 |
| *Boaedon variegatus* | SOUTH AFRICA: Natal Province (unsure locality) | JH 47 | — | — | MT577800 | Hallermann et al. 2020 |