|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *mikro.* worker  N=117  (28 nests) | HW | HL | SL | EL | FL | ML | PL | PPL | GL | CI | EI | SI | FLI | WaL | TL |
| Mean | 1.123 | 0.986 | 1.031 | 0.201 | 0.695 | 1.657 | 0.409 | 0.254 | 1.096 | 114.007 | 20.369 | 91.829 | 61.842 | 0.664 | 4.402 |
| SE | 0.004 | 0.004 | 0.004 | 0.001 | 0.003 | 0.007 | 0.004 | 0.002 | 0.005 | 0.339 | 0.111 | 0.226 | 0.174 | 0.005 | 0.017 |
| Min – Max Range | 1.012-1.215 | 0.825-1.121 | 0.904-1.197 | 0.165-0.230 | 0.620-0.810 | 1.441-1.911 | 0.310-0.507 | 0.225-0.293 | 0.947-1.197 | 102.761-123.517 | 17.690-22.820 | 87.792-100.194 | 57.547-68.853 | 0.551-0.762 | 3.843-4.877 |
| *zeteki* worker  N=54  (13 nests) | **HW** | **HL** | **SL** | **EL** | **FL** | **ML** | **PL** | **PPL** | **GL** | **CI** | **EI** | **SI** | **FLI** | **WaL** | **TL** |
| Mean | 1.435 | 1.175 | 1.166 | 0.256 | 0.862 | 1.972 | 0.482 | 0.298 | 1.255 | 122.141 | 21.831 | 81.329 | 60.046 | 0.780 | 5.181 |
| SE | 0.013 | 0.011 | 0.009 | 0.002 | 0.010 | 0.018 | 0.007 | 0.004 | 0.014 | 0.390 | 0.141 | 0.311 | 0.274 | 0.009 | 0.046 |
| Min – Max Range | 1.208-1.602 | 1.012-1.330 | 1.040-1.360 | 0.207-0.286 | 0.714-1.020 | 1.665-2.248 | 0.385-0.605 | 0.253-0.363 | 1.043-1.520 | 115.790-127.767 | 17.975-24.280 | 77.441-86.661 | 55.287-67.208 | 0.647-0.957 | 4.520-6.043 |
| *balboai* worker  N=3 | HW | HL | SL | EL | FL | ML | PL | PPL | GL | CI | EI | SI | FLI | WaL | TL |
| Mean | 1.520 | 1.216 | 1.227 | 0.259 | 0.904 | 2.089 | 0.456 | 0.308 | 1.292 | 125.012 | 21.258 | 80.720 | 59.515 | 0.764 | 5.36 |
| SE | 0.021 | 0.012 | 0.026 | 0.015 | 0.008 | 0.060 | 0.012 | 0.004 | 0.029 | 1.436 | 1.102 | 0.829 | 0.398 | 0.013 | 0.078 |
| Min – Max Range | 1.459-1.550 | 1.185-1.246 | 1.155-1.276 | 0.213-0.274 | 0.881-0.912 | 1.915-2.188 | 0.425-0.486 | 0.304-0.319 | 1.246-1.368 | 121.99-127.467 | 17.975-22.533 | 79.164-82.323 | 58.839-60.384 | 0.729-0.790 | 5.136-5.486 |
| *mikro.* gyne  N=25  (9 nests) | **HW** | **HL** | **SL** | **EL** | **FL** | **ML** | **PL** | **PPL** | **GL** | **CI** | **EI** | **SI** | **FLI** | **WaL** | **TL** |
| Mean | 1.298 | 1.142 | 1.036 | 0.270 | 0.833 | 2.028 | 0.599 | 0.312 | 1.579 | 113.716 | 23.619 | 79.847 | 64.166 | 0.911 | 5.659 |
| SE | 0.005 | 0.006 | 0.004 | 0.004 | 0.004 | 0.008 | 0.010 | 0.007 | 0.008 | 0.535 | 0.298 | 0.405 | 0.204 | 0.010 | 0.018 |
| Min – Max Range | 1.267-1.380 | 1.098-1.254 | 0.986-1.070 | 0.231-0.304 | 0.803-0.873 | 1.915-2.112 | 0.507-0.704 | 0.253-0.394 | 1.464-1.691 | 104.546-119.481 | 20.000-26.230 | 73.478-84.451 | 62.319-65.964 | 0.817-1.014 | 5.435-5.814 |
| *zeteki* gyne  N=28  (10 nests) | **HW** | **HL** | **SL** | **EL** | **FL** | **ML** | **PL** | **PPL** | **GL** | **CI** | **EI** | **SI** | **FLI** | **WaL** | **TL** |
| Mean | 1.652 | 1.378 | 1.215 | 0.378 | 1.063 | 2.478 | 0.756 | 0.388 | 1.964 | 119.933 | 27.472 | 73.602 | 64.389 | 1.145 | 6.965 |
| SE | 0.011 | 0.010 | 0.007 | 0.003 | 0.008 | 0.012 | 0.016 | 0.005 | 0.015 | 0.423 | 0.220 | 0.255 | 0.240 | 0.017 | 0.043 |
| Min – Max Range | 1.462-1.800 | 1.258-1.520 | 1.110-1.310 | 0.333-0.399 | 0.925-1.121 | 2.272-2.584 | 0.539-0.873 | 0.338-0.424 | 1.656-2.090 | 115.980-126.677 | 25.507-29.203 | 71.111-75.923 | 62.050-67.238 | 0.886-1.267 | 6.072-7.296 |
| *mikro.* male  N=21  (5 nests) | **HW** | **HL** | **SL** | **EL** | **FL** | **ML** | **PL** | **PPL** | **GL** | **CI** | **EI** | **SI** | **FLI** | **WaL** | **TL** |
| Mean | 0.840 | 0.684 | 0.826 | 0.294 | 0.309 | 1.781 | 0.369 | 0.234 | 1.482 | 122.934 | 43.074 | 98.407 | 36.738 | 0.603 | 4.550 |
| SE | 0.004 | 0.005 | 0.004 | 0.003 | 0.003 | 0.012 | 0.006 | 0.004 | 0.031 | 0.956 | 0.403 | 0.618 | 0.369 | 0.008 | 0.035 |
| Min – Max Range | 0.817-0.893 | 0.620-0.732 | 0.788-0.873 | 0.282-0.310 | 0.279-0.338 | 1.671-1.859 | 0.338-0.437 | 0.197-0.266 | 1.239-1.746 | 115.437-134.084 | 40.057-45.858 | 91.713-103.427 | 33.259-40.000 | 0.535-0.684 | 4.196-4.759 |

**Table S4** *–* Partitioned morphometric measurements. Table of partitioned measurements for examined *Mycetomoellerius mikromelanos* sp. nov. (mikro.) and *M. zeteki* (zeteki) specimen by caste and species, including standard errors (SE), minimum and maximum standard measurements in millimeters, except for indices. The junior synonym of *M. zeteki* is included as “balboai” which are included in the entire *M. zeteki* partition.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *zeteki* male  N=22  (6 nests) | HW | HL | SL | EL | FL | ML | PL | PPL | GL | CI | EI | SI | FLI | WaL | TL |
| Mean | 1.043 | 0.797 | 1.011 | 0.368 | 0.369 | 2.015 | 0.501 | 0.286 | 1.734 | 130.871 | 46.133 | 96.988 | 35.409 | 0.787 | 5.334 |
| SE | 0.009 | 0.007 | 0.011 | 0.003 | 0.003 | 0.020 | 0.010 | 0.006 | 0.035 | 1.012 | 0.346 | 0.822 | 0.427 | 0.012 | 0.059 |
| Min – Max Range | 0.957-1.140 | 0.746-0.874 | 0.929-1.100 | 0.338-0.399 | 0.338-0.411 | 1.830-2.168 | 0.422-0.591 | 0.253-0.342 | 1.603-2.242 | 125.826-142.322 | 42.893-48.225 | 86.822-102.687 | 31.579-39.443 | 0.704-0.929 | 4.984-5.902 |

**Table S4** *–* cont’d

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *mikro. m*ale  N=21  (5 nests) | HW | | HL | | SL | | EL | | FL | | ML | | PL | | PPL | | GL | | CI | | EI | | SI | | FLI | | WaL | | TL | |
| Mean | 0.840 | | 0.684 | | 0.826 | | 0.294 | | 0.309 | | 1.781 | | 0.369 | | 0.234 | | 1.482 | | 122.934 | | 43.074 | | 98.407 | | 36.738 | | 0.603 | | 4.550 | |
| SE | 0.004 | | 0.005 | | 0.004 | | 0.003 | | 0.003 | | 0.012 | | 0.006 | | 0.004 | | 0.031 | | 0.956 | | 0.403 | | 0.618 | | 0.369 | | 0.008 | | 0.035 | |
| Min – Max Range | 0.817-0.893 | | 0.620-0.732 | | 0.788-0.873 | | 0.282-0.310 | | 0.279-0.338 | | 1.671-1.859 | | 0.338-0.437 | | 0.197-0.266 | | 1.239-1.746 | | 115.437-134.084 | | 40.057-45.858 | | 91.713-103.427 | | 33.259-40.000 | | 0.535-0.684 | | 4.196-4.759 | |
| *zeteki* male  N=22  (6 nests) | | **HW** | | **HL** | | **SL** | | **EL** | | **FL** | | **ML** | | **PL** | | **PPL** | | **GL** | | **CI** | | **EI** | | **SI** | | **FLI** | | **WaL** | | **TL** | |
| Mean | | 1.043 | | 0.797 | | 1.011 | | 0.368 | | 0.369 | | 2.015 | | 0.501 | | 0.286 | | 1.734 | | 130.871 | | 46.133 | | 96.988 | | 35.409 | | 0.787 | | 5.334 | |
| SE | | 0.009 | | 0.007 | | 0.011 | | 0.003 | | 0.003 | | 0.020 | | 0.010 | | 0.006 | | 0.035 | | 1.012 | | 0.346 | | 0.822 | | 0.427 | | 0.012 | | 0.059 | |
| Min – Max Range | | 0.957-1.140 | | 0.746-0.874 | | 0.929-1.100 | | 0.338-0.399 | | 0.338-0.411 | | 1.830-2.168 | | 0.422-0.591 | | 0.253-0.342 | | 1.603-2.242 | | 125.826-142.322 | | 42.893-48.225 | | 86.822-102.687 | | 31.579-39.443 | | 0.704-0.929 | | 4.984-5.902 | |

**Table S4** *–* Partitioned morphometric measurements; continuted.