

Supplementary material | TABLE S3

Table S3. Morphological comparison of *Microhyla nakkavaram* **sp. nov.** with the other 47 known species of the genus. Bold letters (species name) indicate members of the *M. achatina* species group. The webbing is classified as: *Rudimentary* = up to the first subarticular tubercle on either side of toe IV; *Small* = above the first subarticular tubercle and below or up to the second subarticular tubercle on either side of toe IV; *Moderate* = above the second subarticular tubercle and below or up to the third subarticular tubercle on either side of toe IV; *Large* = above the third subarticular tubercle and below or up to the base of the disc on either side of toe IV; *Complete* = up to the tip of the disc on either side of toe IV. All values are in millimeters (mm) and rounded to the nearest 0.1 decimal. A question mark (?) denotes absence of data.

| Species | Snout to vent length size | Body | Snout profile (dorsal view) | Dorsal skin texture | F1 vs FII | Dermal grooves on toes | Discs on finger & toe tips | Mid dorsal line | Foot webbing | Tibiotarsal articulation reaches |
|--|---------------------------|---------|-----------------------------|--------------------------------------|-----------|------------------------|----------------------------|-----------------|-------------------------------------|----------------------------------|
| <i>M. nakkavaram</i> sp. nov. | ♂16–19; ♀21 | Slender | Rounded | Shagreened with granular projections | F1 > ½FII | Present | Present | Present | Rudimentary: I2–2½II2–3III3–4IV4–3V | Up to eye |
| Distribution: Endemic to Nicobar Islands of India. Reference: Present study | | | | | | | | | | |
| <i>M. achatina</i> | ♂21–25; ♀20–28 | Stout | Obtusely pointed | Shagreened with feeble tubercles | F1 < ½F2 | Present | Present | Present | Rudimentary: I2–2II2–3III3–4IV4–3V | Up to snout tip or beyond |
| Distribution: Endemic to Indonesia. Reference: Garg et al. 2019; Poyarkov et al. 2020; Present study | | | | | | | | | | |
| <i>M. aurantiventris</i> | ♂25–27 ♀30–31 | Stocky | Rounded | Shagreened with tiny tubercles | F1 > ½F2 | Present | Present | Absent | Small: I1¾–2II1½–2¾III2–3⅓IV3¼–1½V | Beyond snout |
| Distribution: Endemic to Vietnam. Reference: Poyarkov et al. 2020 | | | | | | | | | | |
| <i>M. beilunensis</i> | ♂19–24 ♀26–29 | Stocky | Rounded | Shagreened with small tubercles | F1 < ½F2 | Absent | Present | Absent | Rudimentary: I2–2½II2–3III3–4IV4–3V | Up to eye |
| Distribution: Endemic to China. Reference: Zhang et al. 2018; Biju et al. 2019; Poyarkov et al. 2020 | | | | | | | | | | |
| <i>M. berdmorei</i> | ♂23–36 ♀26–47 | Stocky | Nearly rounded | Smooth with small tubercles | F1 > ½F2 | Present | Present | Present | Large: I1–1III1–1+III1–1½IV1½–1V | Up to or beyond snout tip |
| Distribution: India, Myanmar, Thailand, Laos, Vietnam, Cambodia, Malaysia and Indonesia. Reference: Garg et al 2019; Present study | | | | | | | | | | |

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|---|---------------|--------------------|------------------|--|--------------|---------|---------|---------|--|------------------------|
| <i>M. borneensis</i> | ♂11–13 ♀18–19 | Stocky | Obtusely pointed | Smooth with small tubercles | FI Nub/bulge | Present | Present | Absent | Small: I1–2II1–3III2½–3⅓IV3½–2V | Below snout tip |
| Distribution: Endemic to Malaysia (Borneo). Reference: Das and Haas 2010; Matsui 2011; Poyarkov et al. 2020 | | | | | | | | | | |
| <i>M. butleri</i> | ♂20–25 ♀21–27 | Stocky | Round | Shagreened or tubercular | FI > ½FII | Present | Present | Absent | Small: I2–2½II1¾–3III2⅓–3½IV3½–2¼V | Below snout tip |
| Distribution: Southern China, Myanmar, Vietnam, Cambodia, Thailand, Malay Peninsula and Singapore. Reference: Hoang et al. 2021; Poyarkov et al. 2020 | | | | | | | | | | |
| <i>M. chakrapanii</i> | ♂20–25 ♀22–23 | Stocky | Round | Shagreened with tubercular projections | F1 ≤ ½F2 | Absent | Absent | Absent | Rudimentary: I2–2½II2–3+III3+–4+IV4+–3V | Up to eye |
| Distribution: Endemic to Andaman Islands. Reference: Garg et al. 2019; Present study | | | | | | | | | | |
| <i>M. daklakensis</i> | ♂17–21 ♀22–26 | Stocky | Round | Smooth | FI > ½FII | Present | Present | Present | Rudimentary: I2–2½II2–3III3–4IV4⅓–3V | Below snout tip |
| Distribution: Endemic to Vietnam. Reference: Hoang et al. 2021 | | | | | | | | | | |
| <i>M. darevskii</i> | ♂27–33 ♀? | Stocky | Rounded | Slightly tubercular or pustulate | FI > ½FII | Present | Weak | Absent | Complete: I1–1III1–1III1–1IV1–1V | Well beyond snout |
| Distribution: Endemic to Vietnam. Reference: Poyarkov et al. 2014, 2020 | | | | | | | | | | |
| <i>M. darreli</i> | ♂15–16 ♀17 | Slender | Rounded | Shagreened to sparsely granular | FI > ½FII | Present | Present | Absent | Small: I2–2+II2–3III2–3IV3–2¼V | Up to eye |
| Distribution: Endemic to Western Ghats, India. Reference: Garg et al. 2019; Present study | | | | | | | | | | |
| <i>M. eos</i> | ♂21–23 ♀26–28 | Stout | Rounded | Smooth to shagreened | FI > ½FII | Present | Present | Absent | Small: I1½–2+III2⅓–3–III2½–4IV4–1½V | Between eye to nostril |
| Distribution: Endemic to NE India. Reference: Biju et al. 2019; Present study | | | | | | | | | | |
| <i>M. fanjingshanensis</i> | ♂19–23 ♀22–23 | Stout? | Rounded | “Roughish with tiny tubercles” | ? | Present | Present | ? | “rudimentary webbing at bases” | Between eye to nostril |
| Distribution: Endemic Guizhou Province, China. Reference: Li et al. 2019 | | | | | | | | | | |
| <i>M. fissipes</i> | ♂18–27 ♀22–28 | Moderately slender | Rounded | Smooth or slightly | FI > ½FII | Absent | Absent | Absent | Rudimentary: I2–2½II2–3½III3–4IV4–3V | Below snout |

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| tubercular | | | | | | | | | | |
| Distribution: Vietnam, and China. Reference: Garg et al. 2019; Poyarkov et al. 2020 | | | | | | | | | | |
| <i>M. fodiens</i> | ♂20–30 ♀20–30 | Stout | Rounded | Feebly tubercular | FI < ½FII | Absent | Absent | Absent | Small: I1–2II1¾–3III2¾–3¾IV 4–2¾V | Below snout tip |
| Distribution: Endemic to Myanmar. Reference: Poyarkov et al. 2019 | | | | | | | | | | |
| <i>M. gadjahmadai</i> | ♂18–22 ♀20–25 | Stout | Rounded | Low tubercles | FI > ½F2 | Present | Present | Present | Small: I2 ⁻ –2II2 ⁻ –3 ⁻ III3 ⁻ –4 ⁻ IV4 ⁻ –3 ⁻ V | Beyond snout tip |
| Distribution: Endemic to Indonesia. Reference: Atmaja et al. 2019; Present study | | | | | | | | | | |
| <i>M. heymonsi</i> | ♂16–24 ♀18–27 | Stocky | Obtusely pointed | Smooth to Shagreened | FI ≤ ½F2 | Present | Present | Present | Small: I2 ⁻ –2½II2 ⁻ –3 ⁻ III3 ⁻ –4 ⁻ IV4 ⁻ –3 ⁻ V | Below snout tip |
| Distribution: China, Malay Peninsula and Indonesia. Reference: Garg et al. 2019; Poyarkov et al 2020; Present study | | | | | | | | | | |
| <i>M. irrawaddy</i> | ♂12–18 ♀16–21 | Slender | Acuminate | Granular | FI > ½F2 | Absent | Present | Absent | Rudimentary: I2–3II2–3III3–4½IV4½–2¾V | Up to eye |
| Distribution: Endemic to Myanmar. Reference: Poyarkov et al. 2019; Poyarkov et al 2020 | | | | | | | | | | |
| <i>M. karunaratnei</i> | ♂16–17 ♀18–20 | Slender | Rounded | Shagreened with prominent tubercles | FI > ½F2 | Absent | Absent | Absent | Small: I1–2II1–2III2–3IV3–2V | Up to eye |
| Distribution: Endemic to Sri Lanka. Reference: Garg et al. 2019 | | | | | | | | | | |
| <i>M. kodial</i> | ♂16–18 ♀18–20 | Slender | Rounded | Prominent tubercles | FI > ½F2 | Absent | Present | Absent | Rudimentary: I2–2 ⁺ II2–3III3–4IV4–3V | Below or up to eye |
| Distribution: Endemic to India. Reference: Vineeth et al. 2018; Garg et al. 2019 | | | | | | | | | | |
| <i>M. kuramotoi</i> | ♂23–28 ♀28–35 | Slender | Rounded | Smooth or slightly tubercular | FI ≤ ½F2 | Absent | Absent | Absent | Rudimentary: I2–2II2–3III3–4IV4–2½V | Up to eye |
| Distribution: Endemic to Japan. Reference: Matsui and Tominaga 2020; Poyarkov et al. 2020 | | | | | | | | | | |
| <i>M. laterite</i> | ♂14–17 ♀18–19 | Slender | Rounded | Smooth | FI > ½F2 | Present | Present | Absent | Small: I2–2II1–2III2–3IV3–2V | Up to eye |
| Distribution: Endemic to India. Reference: Seshadri et al. 2016; Garg et al. 2019; Present study | | | | | | | | | | |
| <i>M. maculifera</i> | ♂12–14 ♀11–12 | Stout | Bluntly rounded | Tuberculated | FI > ½F2 | Absent | Present | Absent | “Bsal” | Up to snout or just beyond |
| Distribution: Endemic to Malaysia. Reference: Poyarkov et al. 2014, 2020 | | | | | | | | | | |

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|--|---------------|---------|------------------|-------------------------------|--------------|---------|---------|-----------------|--|----------------------------|
| <i>M. malang</i> | ♂18–23 ♀19–24 | Stocky | Rounded | Smooth | FI < ½F2 | Present | Present | Absent | Small: I1–1½II1–1½III1–2½IV2½–1V | Up to snout or just beyond |
| Distribution: Endemic to Malaysia (Borneo). Reference: Matsui 2011; Poyarkov et al. 2020; Eprilurahman et al. 2021 | | | | | | | | | | |
| <i>M. mantheyi</i> | ♂15–30 ♀14–25 | Stocky | Pointed | Granular, feebly pustular | FI < ½F2 | Present | Present | Present/Absent? | Small: I1–2II1–2III2–3IV3–1½V | Beyond snout tip |
| Distribution: Thailand, Malaysia, Singapore. Reference: Das et al. 2007; Poyarkov et al. 2020 | | | | | | | | | | |
| <i>M. mihintalei</i> | ♂21–28 ♀24–30 | Stocky | Rounded | Smooth | FI > ½F2 | Absent | Absent | Absent | Small: I1–2II1–2III2–3IV3–1½V | Up to shoulder |
| Distribution: Endemic to Si Lanka. Reference: Wijayathilaka et al. 2016; Garg et al. 2019 | | | | | | | | | | |
| <i>M. minuta</i> | ♂14–16 ♀15–17 | Slender | Bluntly rounded | Granular, feebly pustular | FI ≤ ½F2 | Present | Present | Absent | Rudimentary: In.a.–n.a.II2–3½III3–4IV4–3V | Below snout tip |
| Distribution: Endemic to Vietnam. Reference: Poyarkov et al. 2014; Poyarkov et al. 2020 | | | | | | | | | | |
| <i>M. mixtura</i> | ♂18–26 ♀24–27 | Stout | Rounded | Smooth, with tubercles | FI < ½F2 | Present | Present | Absent | Rudimentary: I2–2½II2–3III3–4IV4–3V | Below snout |
| Distribution: Endemic to China. Reference: Zhang et al. 2018; Poyarkov et al. 2020 | | | | | | | | | | |
| <i>M. mukhlesuri</i> | ♂16–25 ♀25–26 | Stout | Rounded | Shagreened with few tubercles | FI > ½F2 | Absent | Absent | Absent | Rudimentary: I2–2½II2–3½III3–4IV4–2¾V | Below eye |
| Distribution: India, China, Vietnam, Myanmar, Bangladesh, Indonesia, Thailand, Singapore. Reference: Hasan et al. 2014; Garg et al. 2019 | | | | | | | | | | |
| <i>M. mymensinghensis</i> | ♂14–22 ♀20–25 | Stocky | Rounded | Shagreened with few tubercles | FI ≥ ½F2 | Absent | Absent | Absent | Rudimentary: I2–2½II2–3III3–4IV4–3V | Up to eye |
| Distribution: Bangladesh, India, Bhutan. Reference: Hasan et al. 2014; Garg et al. 2019 | | | | | | | | | | |
| <i>M. neglecta</i> | ♂17–20 ♀17–23 | Slender | Acuminate | Smooth with few tubercles | FI > ½F2 | Present | Present | Present | Small: I1½–2½II1¾–3III2¾–3¾IV3¾–2½V | Beyond snout tip |
| Distribution: Endemic to Vietnam. Reference: Poyarkov et al. 2020 | | | | | | | | | | |
| <i>M. nepenthicola</i> | ♂10–13 ♀17–19 | Slender | Obtusely pointed | Smooth with small tubercles | FI Nub/bulge | Present | Present | Absent | Small: In.a.–n.a.II1–3III2–3IV3–2V | Below snout tip |

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| Distribution: Endemic to Malaysia. Reference: Das and Haas 2010; Matsui 2011 | | | | | | | | | | |
| <i>M. nilphamariensis</i> | ♂19–25 ♀18–26 | Stout | Acutely rounded | Shagreed with small tubercles | FI < ½F2 | Absent | Absent | Absent | Rudimentary: I2–2½II2–3III3–4IV4–3V | Below eye |
| Distribution: Endemic to Bangladesh. Reference: Howlader et al. 2015; Garg et al. 2019 | | | | | | | | | | |
| <i>M. ninthuanensis</i> | ♂19–24 ♀21–24 | Stocky | Abruptly round | Smooth | FI ≤ ½F2 | Present | Present | Present | Rudimentary: I2–2½II2–3III3–4IV4½–3V | Below snout tip |
| Distribution: Endemic to Vietnam. Reference: Hoang et al. 2021 | | | | | | | | | | |
| <i>M. okinavensis</i> | ♂20–26 ♀26–31 | Slender | Rounded | Smooth or slightly tubercular | F1 ≤ ½F2 | Absent | Absent | Absent | Rudimentary: I1½–2II1½–3¼III2¾–4IV4–2½V | Above the eye |
| Distribution: Endemic to Japan. Reference: Matsui and Tomiaga 2020; Poyarkov et al. 2020 | | | | | | | | | | |
| <i>M. orientalis</i> | ♂15–19 ♀15–20 | Slender | Rounded | Smooth or slightly tubercular | F1 < ½F2 | Present | Present | Present | Rudimentary: I2–2+II2–3III3–4IV4–3V | Up to eye |
| Distribution: Endemic to Indonesia. Reference: Matsui et al. 2013; Eprilurahman et al. 2021; Present study | | | | | | | | | | |
| <i>M. ornata</i> | ♂13–24 ♀22–28 | Stocky | Obtusely rounded | Shagreened or tubercular | FI > ½F2 | Absent | Present | Absent | Rudimentary: I2+–2½II2–3+III3+–4+IV4+–3V | Up to eye |
| Distribution: Endemic to India and Sri Lanka. Reference: Garg et al 2019; Present study | | | | | | | | | | |
| <i>M. palmipes</i> | ♂16 ♀21–22 | Slender | Rounded | Shagreened or feebly tubercular | F1 < ½F2 | Absent | Absent | Absent | Moderate: I1–2II1–2III1–2IV2–1V | Up to or beyond snout tip |
| Distribution: Endemic to Indonesia. Reference: Garg et al. 2019; Present study | | | | | | | | | | |
| <i>M. picta</i> | ♂25–30 ♀27–34 | Stout | Rounded | Smooth or slightly warty | F1 < ½F2 | Absent | Absent | Absent | Small: I2–2¾III1¾–2¾III2¾–3¾IV4–2½V | Below eye |
| Distribution: Endemic to Vietnam. Reference: Poyarkov et al. 2014; Poyarkov et al. 2020 | | | | | | | | | | |
| <i>M. pineticola</i> | ♂17–19 ♀20–23 | Stocky | Rounded | Feebly granular | FI ≤ ½F2 | Present | Present | Present | Small: I1½–2½II1¾–3III2¾–3¾IV4–2½V | Below snout tip |
| Distribution: Endemic to Vietnam. Reference: Poyarkov et al. 2014; Poyarkov et al. 2020 | | | | | | | | | | |
| <i>M. pulchra</i> | ♂23–32 ♀28–37 | Stocky | Obtusely pointed | Smooth | FI < ½F2 | Absent | Absent | Absent | Small: I1+–2II1⅓–3–III2⅓–4IV4–3V | Below eye |
| Distribution: China, Indochina, Thailand. Reference: Garg et al. 2019; Biju et al. 2019 | | | | | | | | | | |

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|--|----------------|---------|---------|--|-----------|---------|---------|---------|---|---------------------------|
| <i>M. rubra</i> | ♂22–30 ♀20–32 | Stout | Rounded | Shagreened with tubercular projections | FI < ½F2 | Absent | Absent | Absent | Small: I1–2 ⁻ II1 ⁺ –2½III2½–3½IV4 ⁻ –2½V | Up to shoulder |
| Distribution: Endemic to India. Reference: Garg et al. 2019 | | | | | | | | | | |
| <i>M. sholigari</i> | ♂16–19 ♀16–19 | Stocky | Rounded | Shagreened or feebly tuberculated | FI > ½F2 | Present | Present | Present | Small: I2 ⁻ –2III1½–3 ⁻ III2–3 ⁺ IV3 ⁺ –2V | Above eye, below snout |
| Distribution: Endemic to India. Reference: Garg et al. 2019 | | | | | | | | | | |
| <i>M. sriwijaya</i> | ♂12–16; ♀17–20 | Stocky | Rounded | Smooth with few tubercles | FI < ½FII | Present | Present | Absent | Rudimentary: I2 ⁻ –2II2 ⁻ –3 ⁻ III3 ⁻ –4 ⁻ IV4 ⁻ –3 ⁻ V | Up to snout tip or beyond |
| Distribution: Endemic to Indonesia. Reference: Eprilurahman et al. 2021; Present study | | | | | | | | | | |
| <i>M. superciliaris</i> | ♂12–13 ♀12 | Slender | Rounded | Smooth | F1 < ½F2 | Present | Present | Absent | Moderate: I1–1III1–1III1–2IV2–1V | Up to snout or beyond |
| Distribution: Thailand, Malaysia, Indonesia. Reference: Poyarkov et al. 2020 | | | | | | | | | | |
| <i>M. taraiensis</i> | ♂19–21 ♀22–25 | Slender | Rounded | Granular | F1 > ½F2 | Absent | Absent | Absent | Rudimentary: I2 ⁺ –2½II2–3III3–4IV4–3V | Up to snout |
| Distribution: Endemic to Nepal. Reference: Khatiwada et al. 2017; Garg et al. 2019 | | | | | | | | | | |
| <i>M. tatrix</i> | ♂10–14 ♀15–18 | Slender | Rounded | Smooth | FI = ½F2 | Present | Present | Absent | Moderate: I1–2III1–2III1–2½IV2½–1V | Beyond snout |
| Distribution: Endemic to Thailand. Reference: Poyarkov et al. 2014; Poyarkov et al. 2020 | | | | | | | | | | |
| <i>M. zeylanica</i> | ♂15–19 ♀15–20 | Slender | Rounded | Smooth or slightly tubercular | F1 > ½F2 | Absent | Present | Absent | Small: I2 ⁻ –2III1 ⁺ –3 ⁻ III2–3IV3–2V | Up to eye |
| Distribution: Endemic to Sri Lanka. Reference: Garg et al. 2019 | | | | | | | | | | |

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