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## ***Anolis Boulengerianus* Thominot, 1887, a senior synonym of *Anolis isthmicus* Fitch, 1978 (Squamata: Dactyloidae)**

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### **Abstract**

For most of its history, the name *Anolis Boulengerianus* Thominot, 1887 has been regarded as a junior synonym of *Anolis nebulosus* (Wiegmann, 1834) or *Anolis nebuloides* Bocourt, 1873. However, a comparison of the syntypes and additional topotypical specimens of *A. Boulengerianus* with three topoparatypes and additional specimens of the species currently referred to as *Anolis isthmicus* Fitch, 1978 showed that these two names pertain to the same species. Because of the priority principle, *A. isthmicus* becomes a junior synonym of *A. Boulengerianus*. We provide a redescription of the type series of *A. Boulengerianus* and an updated diagnosis for this taxon relative to all other beta anoles.

**Key words:** Reptilia, Mexico, Oaxaca, junior synonym, *Anolis subocularis* group, *Anolis Boulengerianus* group

### **Resumen**

Durante la mayor parte de su historia, el nombre *Anolis Boulengerianus* Thominot, 1887 ha sido considerado como un sinónimo junior de *Anolis nebulosus* (Wiegmann, 1834) o *Anolis nebuloides* Bocourt, 1873. Sin embargo, una comparación de los sintipos y ejemplares topotípicos adicionales de *A. Boulengerianus* con tres topoparatis y ejemplares adicionales de la especie referida actualmente como *Anolis isthmicus* Fitch, 1978 muestra que estos dos nombres pertenecen a la misma especie. Debido al principio de prioridad, *A. isthmicus* es un sinónimo junior de *A. Boulengerianus*. Se aporta una redescipción de la serie tipo de *A. Boulengerianus* y una diagnosis actualizada de este taxón con respecto a todos los demás anolis beta.

### **Introduction**

Thominot (1887) described *Anolis Boulengerianus* based on three specimens (now MNHN 6554, 1994.1670–71) from “Tehuantepec (Mexico)” collected by F. Sumichrast. Barbour (1934) and Smith and Taylor (1950) listed this species as a synonym of *Anolis nebulosus* (Wiegmann, 1834), whereas Guibé (1954) and Brygoo (1989) listed it as a synonym of *Anolis nebuloides* Bocourt, 1873, although Brygoo (1989) did it only tentatively (indicated with a question mark). In 1978, Fitch described *Anolis isthmicus* based on specimens from “19.5 km WNW Tehuantepec, Oaxaca, Mexico” and nearby localities, and diagnosed it relative to a selection of anole species from the general region of southern Mexico, including *A. nebuloides* and *A. nebulosus*. However, Fitch (1978) did not include *A. Boulengerianus* in his comparisons, presumably because either he relied on the correctness of its synonymization with *A. nebulosus* by previous authors, or was not aware of its description by Thominot (1887). Thus, *A. Boulengerianus* remained largely forgotten as a presumed junior synonym of *A. nebuloides* or *A. nebulosus*.

While examining type material of Mexican anole species in the Muséum National d’Histoire Naturelle of

= 0.99,  $n = 20$ ; versus 0.67–0.76,  $x = 0.83$ ,  $n = 23$ , in *A. forbesi* [Herrera-Flores 2011]; adpressed hind limb reaching the eye or beyond in *A. Boulengerianus*; reaching the shoulder in *A. microlepidotus*, the ear in *A. nebulosus*, and beyond the ear, but failing to reach the eye, in *A. quercorum*; Fitch 1978); and from the other species in the *A. Boulengerianus* group (*A. subocularis*) by having more numerous middorsal and midventral scales between the levels of the axilla and groin (52–75,  $x = 62.5$ ,  $n = 21$  and 45–62,  $x = 50.5$ ,  $n = 21$  dorsals and ventrals, respectively; versus 40–55 and 30–42 dorsals and ventrals, respectively, in *A. subocularis* [Fitch 1978]; also 36–51,  $x = 41.5$ –44.6,  $n = 15$ –18 and 32–44,  $x = 37.3$ –38.9,  $n = 15$ –18 dorsals and ventrals, respectively, in three samples of *A. subocularis* [Feria-Ortiz 2001]).

**Geographic distribution:** Slopes and foothills on Pacific versant of the Isthmus of Tehuantepec in southeastern Oaxaca, Mexico.

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#### APPENDIX 1. Specimens examined.

- Anolis bouleangerianus* **MEXICO**: OAXACA: “Tehuantepec” (MNHN 6554, 1994.1670–1994.1671; syntypes); alrededores de Tehuantepec, Barrio Lieza, 16° 21' 30.79" N, 95° 20' 21.27" W, 123 m elevation (ANMO 2217–22, 2224 [MZFC uncatalogued]); 19.5 km WNW Tehuantepec (KU 176036–38, topoparatypes of *Anolis isthmicus*); 8 km WNW Tehuantepec (KU 176035, paratype of *A. isthmicus*); 12.1 km N jct Rts 185 & 190 (KU 193161, 193167, 193169); 3.2 km W jct Rt 190 & Union Hidalgo rd (KU 193171); 17.6 km NW Tehuantepec on Rt 190 (KU 193177, 193179); Cerro Guiengola, cantera de mármol; ca 16 km WNW Tehuantepec (MZFC 19453).
- Other material examined (not included in diagnosis): N of Juchitán (SMF 80763); Santa Cruz Bamba, 100 m (SMF 81592).
- Anolis megapholidotus* **MEXICO**: GUERRERO: Agua de Obispo (KU 87352–57).
- Anolis nebuloides* **MEXICO**: OAXACA: Putla (MNHN 2494, 1994.0984–1994.0986; syntypes).