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### THE REDISCOVERY OF RURK'S CAT SKINK

*RISTELLA RURKII* GRAY, 1839 (REPTILIA: RISTELLIDAE)

WITH REMARKS ON DISTRIBUTION AND NATURAL HISTORY

Sumaithangi Rajagopalan Ganesh

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## THE REDISCOVERY OF RURK'S CAT SKINK *RISTELLA RURKII* GRAY, 1839 (REPTILIA: RISTELLIDAE) WITH REMARKS ON DISTRIBUTION AND NATURAL HISTORY

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**Abstract:** The description of Rurk's Cat Skink *Ristella rurkii* is expanded herein based on recent field sightings and a voucher specimen. Three individuals comprising an adult male, an adult female, and a juvenile were encountered in Kodaikanal, Palni Hills of the southern Western Ghats. Morphological and ecological notes on the voucher specimen and these live sightings are elaborated to enrich the current knowledge on this little-known species. This species is also illustrated in life herein for the first time. The current report forms the rediscovery of this species after nearly 90 years and after a lapse of 175 years since its original description. A review of its past distribution records is compiled and further surveys are recommended to revise the geographic range and conservation status of this Data Deficient species.

**Keywords:** Distribution, morphology, Palni hills, scientific obscurity, Skink.

Skinks living in dense forests are hard to document due to their cryptic appearance and elusive habits. The newly recognized skink family Ristellidae, consisting of the genera *Ristella* Gray, 1839 from the Western Ghats and *Lankascincus* Greer, 1991 from Sri Lanka, is the only skink family endemic to the Indian subcontinent (see Hedges 2014). The genus *Ristella* is endemic to the Western Ghats of peninsular India and this group of

small-sized, leaf-litter-dwelling skinks rank as one of the most poorly-studied lizards in India (Smith 1935). The first of the species to be described in this genus is *R. rurkii*, the type species of the genus. Gray (1839) described this species based on the syntypes BMNH 1946.8.15.64-68 in the Natural History Museum, London. The original description reads thus "*Ristella Rurkii* (sic). Crown and back pale brown, shining; scales 6-rowed, each of four central rows with a blackish central spot, forming four longitudinal series of spots; sides white-dotted; chin and belly white. North India, Dr. Rurk. Mus. Chatham."

Gray (1845) again included this species in his catalogue and stated it to be from northern India. Jerdon (1854) did not record or include this species in his catalogue. Günther (1864) did not include this genus or species in his book. Theobald (1868) included this species in his catalogue and mentioned that it is from northern India. Beddome (1870, 1871) and Stoliczka (1871) described further congeners and noted that these lizards occur in the Western Ghats rainforests, with a speculation about the provenance of the 'North Indian' *R. rurkii*. Günther (1875) remarked that R.H. Beddome's

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material from 'Toracada Valley' (now Thorakadavu near Aliyar in Anaimalai) fully agrees with *R. rurkii*. Theobald (1876) remarked that the genus *Ristella* was restricted to the Western Ghats. Boulenger (1887) categorically dissociated *R. rurkii* from northern India and mentioned its distribution as Anaimalai (also see Boulenger 1890).

In the 20<sup>th</sup> century, Roux (1928) collected *R. rurkii* from Palni Hills. Smith (1935) compiled the then present information on this species and stated that its purported type locality 'North India' is incorrect, as it is endemic to the Western Ghats. Further books on Indian lizards such as Daniel (2002) and Das (2002) could not shed light on this species (but see Sharma 2002). Pyron et al. (2013), however, discussed the phylogeny of Squamata in general including the relationship of *Ristella rurkii* and *Lankascincus fallax*. Even more basic information on this species, however, such as its morphology, distribution, and natural history still stands unknown. Of late, current compilations on Indian lizards customarily list this species (e.g., Venugopal 2010; Aengals et al. 2018). For a long time, the only published information adding extra information and reporting a subsequent collection of this species is that of Roux (1928). Then Ganesh & Asokan (2010) reported on a preserved specimen in the collection of the Madras Government Museum in India. My sighting of this little-known species during fieldwork and direct examination of a voucher specimen provide an opportunity to contribute this paper. This article herein communicates its rediscovery, illustrate this taxon in life for the first time, and furnish natural history notes based on my field observations.

#### MATERIALS AND METHODS

Field observations on live lizards as well as data from the voucher specimen form the basis of this work. Morphological and morphometric details were scored from the preserved voucher specimen using standard vernier slide callipers (L.C. 0.5mm). Magnifying hand lens (5X zoom) was used for scale counting. I follow Smith (1935) for morphological terminology and definitions. Individuals sighted in the field were examined alive in situ. No animals were collected for preservation and deposition in a museum owing to survey rules and stipulations of the Tamil Nadu Forest Department. During field surveys, live individuals sighted were examined long enough to establish unambiguous species-identification but were not examined to the extent of the preserved specimen. To alleviate stress, fewer measurements were scored from live animals in situ, that too, only to the nearest mm. Photographs of the subject and habitat were taken using high-resolution digital cameras (Canon

Powershot SX130 IS). Much of the scalation (except scale rows that were scored directly) and colouration notes of live animals were scored from such photographs, after bigger magnifications and zoom in a computer. Such voucher photographs were numbered as ZSI/SRC/R/PV-2018 and were deposited in the Zoological Survey of India, Chennai, a national repository of the Government of India. Some of these are also reproduced here in this article. Geo-coordinates (in decimal degrees to two decimal places) and elevation (in meters above mean sea level) were sourced from Google Earth software. Rodgers & Panwar (1988) was used for ecoregional classification and Champion & Seth (1968) was referred for habitat type classification. Higher taxonomic nomenclature follows Hedges (2014).

#### TAXONOMY

##### *Ristella rurkii* Gray, 1839

*Ateuchosaurus travancoricus* Beddome, 1870 (part)

*Ristella travancorica* — Beddome, 1871 (part)

*Ristella malabarica* Stoliczka, 1871

*Ristella rurki* — Roux, 1928; Smith, 1935

(Images 1 & 2; Table 1)

**Material examined:** MAD 1932 housed in Madras Government Museum, India, collected by Frederick Henry Gravely from Kodaikanal, Palni Hills (see Ganesh & Asokan 2010).

#### Description

**Habitus:** Body slender and elongate; head and neck of more or less same width; neck fairly long; forelimbs small, with four fingers; trunk slightly wider, supple, and elongate; hindlimbs larger than forelimbs, with five toes; tail thick and robust but incomplete, broken part missing.

**Measurements (in mm):** Snout-vent length 44.5, tail length 40+? (tail cut), head length 7.7, head width 5.8, head depth 5.2, body width 6.3, axilla-groin distance 33.4, distance from snout to fore-limb contained 14.5, humeral length 5.0, radius ulna length 4.2; femoral length 6.3; tibial length 4.3.

**Scalation:** Midbody scale rows 26; scales smooth or with feeble traces of keels, glossy; vertebral and paravertebral series of scales hexagonal, imbricate; dorsal and ventral scales slightly larger than lateral scales on trunk; parietals larger than interparietal, in contact with each other beyond interparietal; prefrontals two, distinctly separate, not in contact with each other; frontonasal one, in contact with frontal; supralabials

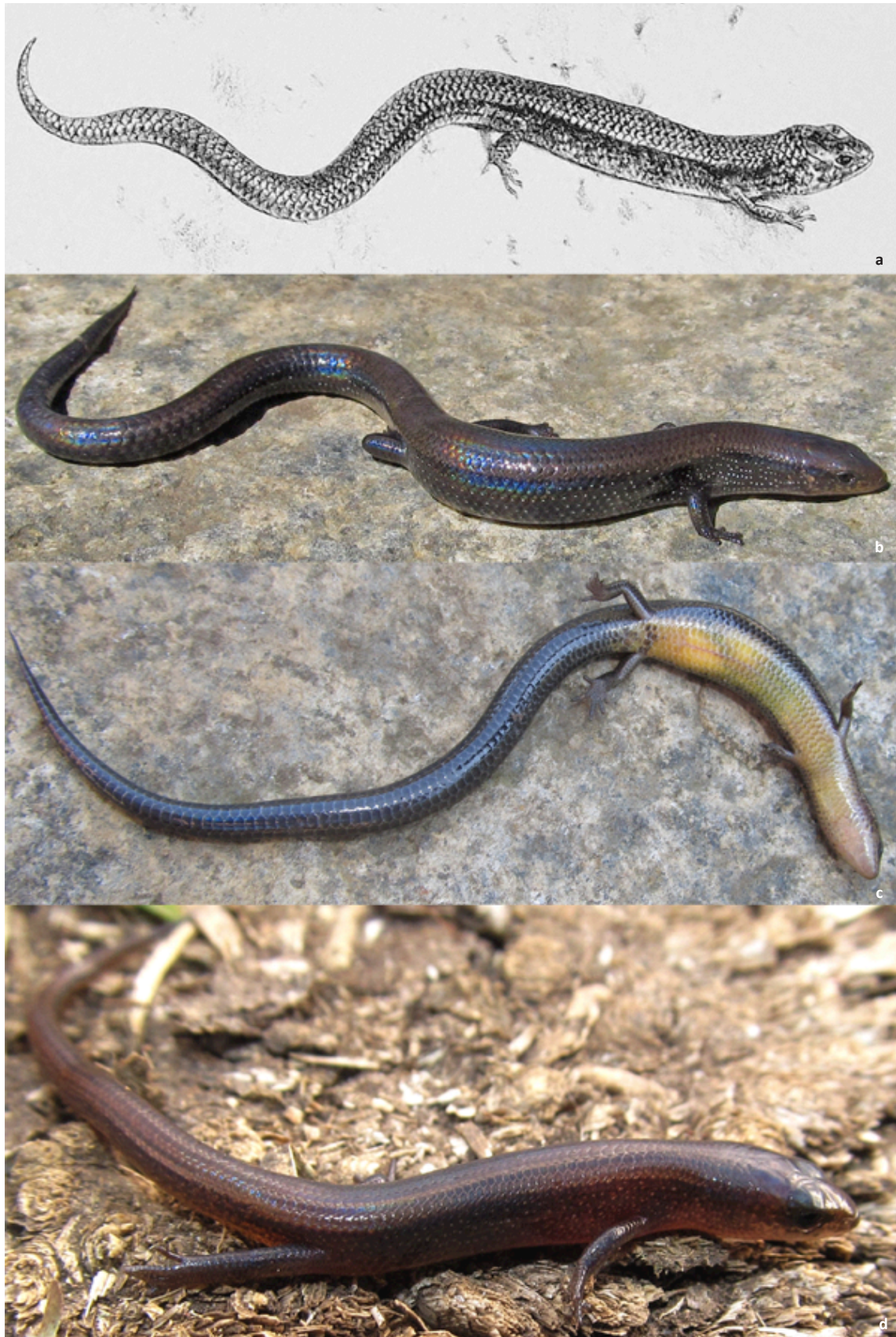


Image 1. *Ristella rurkii*. a - reproduction of type drawing from Boulenger (1887), b - live adult - dorsolateral view, c - live adult - ventral view, d - live juvenile. © S.R. Ganesh



Image 2. *Ristella rurkii* MAD, 1932. a - entire, b - close-up of trunk showing nearly smooth scales, c - preanofemoral region, d - top of head. © S.R. Ganesh

seven; infralabials seven to eight; supraoculars five; supranasals absent; nuchals absent; loreals two on each side of head; mid-dorsal scales between parietals and sacral scale 50; mid-ventral scales between mental and preanal scale 52; lower eyelid scaly; nasal scale pierced by nostril; fourth toe subdigitals 10; tympanum visibly larger than naris, but smaller than a lateral body scale; preanals two, not much larger than surrounding scales; subcaudals not much larger than other scales on tail.

Colouration in preservation: Overall light fawn brown throughout; scale borders slightly darker; scales lustrous and glossy; digital claw grooves darker; eye greyish-brown.

Colouration in life (based on live, uncollected conspecifics; n=3): Dorsum dark chocolaty-brown from snout tip to tail tip; dorsal trunk of same ground colour, with obscure blackish dots, atop each scale, resembling

Table 1. Main morphological characters of *Ristella rurkii* specimens

Characters	MAD, 1932	Individual 1	Individual 2	Individual 3
Snout-vent length	44.5mm	40mm	45mm	30mm
Tail length	40+?mm	12+?mm	90mm	55mm
Axilla-groin distance	33.4mm	32mm	37mm	22mm
Dorsal scale rows	26	26	26	26
Mid-ventral scales	52	50	50	53
Supralabials	7	8	7	7
Infralabials	7/8	8	8	8
Fourth toe subdigitals	10	9	10	10

Symbol +? denotes cut tail

stripes, 4–6 series in number on trunk; sides of head lighter brown, supralabial, infralabial, and loreal regions with whitish spots; sides of head (temporal), lateral trunk and tail with a distinct wide black wash finely dotted with white speckles; venter yellow in adults (dirty pinkish white in juvenile); mental and gular region white; subcaudals grey-brown in adults (ashy white in juvenile); iris brownish-grey with a black circular pupil.

Variation (n=3, one juvenile): Live individuals agreeing in morphology with the preserved specimen; snout-vent length 40mm, 45mm (juvenile 30mm); full, original tail length 90mm (juvenile 55mm); axilla-groin distance 32mm, 37mm (juvenile 22mm). Midbody scale rows 26; other scalation features (counted on high-resolution photographs) – supralabials seven to eight; infralabials eight; supraoculars five; loreals two on each side of head; mid-ventrals 50–53; fourth toe subdigitals nine to 10; preanals two (Table 1).

**Field observations:** In January 2015, during herpetological surveys in the Palni Hills of the southern Western Ghats, this species was sighted in some localities in and around the Kodaikanal Wildlife Sanctuary. From 60 man hours of survey, a total of three sightings of this species were obtained. A juvenile was sighted within dense grass clumps on open hill slopes at 16:35hr in Mannavanur (10.22°N & 77.36°E; 1,900m). One adult female was sighted under a fallen log at 12:25hr in Mathikettan Shola (10.18°N & 77.42°E; 2,050m). An adult male was sighted at 14:20hrs under a rock in Berijam (10.18°N & 77.39°E; 2,100m). Two near-term eggs were visible when seen through the venter of the female. Sightings of gravid females and hatchlings indicate that January falls within the breeding season of *Ristella rurkii*, at least in the Palni hills region (Image 3).



Image 3. a - Steep escarpment rising abruptly from the surrounding plateau in Palni Hills, b - shola or montane cloud forests, the habitat of *Ristella rurkii*. © S.R. Ganesh

## DISCUSSIONS

In a broader sense knowledge on the genus *Ristella* itself is rather scanty (see Boulenger 1887, 1890; Smith 1935; Venugopal 2010). While *R. rurkii* Gray, 1839 is the first congener to be described (in fact, the type species of this genus), other congeners were described between 1870 and 1887, largely based on materials collected by R.H. Beddome from various parts of southern Western Ghats (Boulenger 1890; Smith 1935). Even in the original description of taxa such as *R. travancorica* (Beddome, 1870) the type series is reported to be composed of many specimens from localities as far afield as Travancore, Wayanad, and Anaimalais. Same holds true for *R. beddomii* Boulenger, 1887 and *R. guentheri* Boulenger, 1887 for which the locations were broadly given as southwestern India (see Boulenger 1887). Precise locations when mentioned, such as Sirumalai for *R. guentheri*, were later on postulated to be incorrect (see Ganesh & Arumugam 2016). Thus, a broad taxonomic revision of *Ristella* spp. is direly needed. Related congener *Lankascincus* Greer, 1991 of Sri Lanka was also found to contain greater diversity than initially realised (see Batuwita & Pethiyagoda 2007 and references therein).

*Ristella rurkii* has remained one of the most poorly known lizards in the entire Indian peninsula (Smith 1935; Venugopal 2010). Since *R. rurkii* is the senior most congener nomenclaturally, and has been first associated and later dissociated from another nomen, *R. travancorica* (Beddome, 1870), I believe the taxonomic stability of *R. rurkii* is not questionable. Its morphological

uniqueness in being the only smooth-scaled *Ristella* (see Boulenger 1890; Roux 1928; Smith 1935) also sets it apart from other more cryptic congeners. Other more recently described lizards from the Western Ghats such as *Eutropis gansi* Das, 1991 and *Calotes aurantolabium* Krishnan, 2008 are also equally unknown (Venugopal 2010). Despite being long-known from as early as 1839, however, *R. rurkii* has remained obscure to science for as long as 175 years. The mishap with its type locality (Gray 1839; Smith 1935) perhaps evaded or disoriented subsequent attempts of finding this species. The sole published information reporting a subsequent collection was that of Roux (1928), who reported collecting four examples of this species, two each from Kukkal and Poomparai in Kodaikanal during March and June 1927. There is still a whopping 90 years, nearly a century-long gap between the last previous report of this species (Roux 1928) and the current rediscovery. The present examination (also see Ganesh & Asokan 2010) of this unique smooth-scaled congener stemming from a previously known, verified locality (Roux 1928), clearly backs up the veracity of this finding.

Till now, this species has been regarded as Data Deficient (Srinivasulu et al. 2014). As far as current knowledge goes, it is recommended that further targeted surveys should continue to discover more populations of this species. Historical reports (Smith 1935) from Travancore need a recent verification/validation. Surveys in Travancore Hills (see Annandale 1906; Inger et al. 1984; Ishwar et al. 2001; Chandramouli & Ganesh 2010) either recorded other congeners or did not identify their findings of *Ristella* spp. up to species

level. The nearby and contiguous High Wavys and Cardamom Hills harbour a very similar lizard assemblage as of Anaiamlai-Palni massif, including endemics such as *Salea anamallayana* (Beddome, 1878) (Srinivas et al. 2008). *Ristella* populations from these massifs only reveal the presence of *R. guentheri* Boulenger, 1887 (Chandramouli & Ganesh 2010). Therefore, pending further reliable reports, *R. rurkii* should currently be considered as endemic to the Anaiamlai-Palni hill complex. This has got a direct bearing on its conservation status and, therefore, further refinement of its threat status evaluation is recommended.

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