**NOTE**

*Argostemma khasianum* C.B. Clarke (Rubiaceae): A NEW RECORD OF A GENUS AND SPECIES OF FLOWERING PLANT FOR THE STATE OF ARUNACHAL PRADESH (INDIA) AND ITS LECTOTYPIFICATION

Umeshkumar L. Tiwari & V.K. Rawat

26 October 2018 | Vol. 10 | No. 11 | Pages: 12607-12609
10.11609/jott.3954.10.11.12607-12609
**ARGOSTEMMA KHASIANUM C.B. CLARKE (RUBIACEAE): A NEW RECORD OF A GENUS AND SPECIES OF FLOWERING PLANT FOR THE STATE OF ARUNACHAL PRADHESH (INDIA) AND ITS LECTOTYPIFICATION**

Umeshkumar L. Tiwari & V.K. Rawat

1,2 Botanical Survey of India, Arunachal Pradesh Regional Centre, Senki View, Papum Pare District, Arunachal Pradesh 791111, India
1 tigerumesh11@gmail.com (corresponding author),
2 rawat_vk2107@rediffmail.com

During a botanical exploration of the state to revise the Flora of East Kameng District, one interesting species of *Argostemma* with white coloured flowers and hairy peduncle was collected. After critical examination of the specimens and existing literature dealing with *Argostemma* of the Indian subcontinent and adjacent areas (Roxburgh 1864; Hooker 1880; Hajra et al. 1996; Pal 2013; Dash & Singh 2017) it was revealed that this genus has a new distribution record for the state. The species has been enumerated here along with its lectotypification, as more than one specimen existed among the original material.

*Argostemma khasianum* C.B. Clarke in Hook.f., Fl. Brit. Ind. 3: 43. 1880. (Images 1 & 2)

Type: India: Khasia Mts., F. De Silva et al. s.n. (Wallich Catalogue 8394B, p.p., K000031008) (KI- Lectotype designated here); 8394C-K001125382 (KI-Islectotype designated here).

Perennial herb with dense matted roots. Stem erect, branched, up to 4cm long, internodes very short, glabrous or minutely hairy. Leaves in two pairs, pseudoverticillate, slightly anisophyllous elliptic, apex acute, base attenuate, 2.0–5.5 x 1.0–2.5 cm, sparsely pubescent on both surfaces; petiole 0.5–2.0 cm long, glabrous. Stipules very small, much reduced. Inflorescence 3–6 flowered, a laxed scorpioid cyme;
Argostemma khasianum - a new genus and species of flowering plant

Tiwari & Rawat

Image 1. Argostemma khasianum. A - U.K. Tiwari 47315 (ARUN); B - habit of plant; C - close up of flower

peduncle 5.5–6.0 cm long, white, densely pubescent. Flowers 4–5-merous, actinomorphic. Calyx chartaceous, green; calyx lobes ovate, ca. 2–3 mm long, spreading, densely pubescent. Corolla star shaped, pubescent outside, tip of the corolla with 4–5 hairs, corolla lobes narrowly triangular, ca. 2mm long; corolla tube <1mm long. Stamens 4, inserted at the base of the corolla tube; filaments ca. 6–7 mm long, free; anther fused, extrose, forming a cone like; yellow with white apical appendage, basifixed, opening by longitudinal slits. Ovary pubescent; style filiform, ca. 8mm long, extrose, glabrous; stigma bilobate. Fruits globose, pubescent.

Ecology: On moist stream side in evergreen forests; ca. 1,500m.

Flowering: June–July.

Taxonomic notes: Clarke (1880) while describing this species referred to Argostemma verticillatum, Wallich Catalogue 8394, which was collected by ‘F. De Silva & C.’ from Khasi hills. Wallich (1829–1849) while listing his catalogue had three sets under the number 8394, i.e., A, B & C. Where, 8394A referred to his specimen collected from Nepal (Nipal) and 8394B-C referred to F. De Silva’s collections from Khasia Hills in India. All these specimens were previously identified as Argostemma verticillatum. Among these, Wallich Catalogue 8394B in parts, (K000031008, K001125380, K001125381) and 8394C in parts (K001125382) represent Argostemma khasianum. Of these, K000031008 is chosen as a lectotype because it contains more than one plant with both vegetative and reproductive parts, whereas K001125380, K001125381 and K001125382 are chosen as isolectotypes.

Other specimens examined: 47315 (ARUN), 07.vii.2016, India: East Kameng, from Bana to Yashing Top, 1,065m, coll. U.K. Tiwari); Wallich Catalogue 8394B - K001125380, K001125381 (K!), Khasia Hills, F. De Silva s.n. ; Wallich Catalogue 8394C K000031008, K001125382, (K!), Khasia Hills, F. De Silva s.n. ; 5472 (K!) Khasia Hills, Clarke; K000031014; K000031012; K000760233 (K!), Khasia Hills, Hooker & Thompson s.n. .
Argostemma khasianum - a new genus and species of flowering plant

Tiwari & Rawat

References


The Journal of Threatened Taxa is dedicated to building evidence for conservation globally by publishing peer-reviewed articles online every month at a reasonably rapid rate at www.threatenedtaxa.org. All articles published in JoTT are registered under Creative Commons Attribution 4.0 International License unless otherwise mentioned. JoTT allows unrestricted use of articles in any medium, reproduction, and distribution by providing adequate credit to the authors and the source of publication.

ISSN 0974-7907 (Online); ISSN 0974-7893 (Print)

October 2018 | Vol. 10 | No. 11 | Pages: 12443–12618
Date of Publication: 26 October 2018 (Online & Print)
DOI: 10.11609/jott.2018.10.11.12443-12618

The terrestrial life of sea kraits: insights from a long-term study on two Laticauda species (Reptilia: Squamata: Elapidae) in the Andaman Islands, India — Zoya Tyabji, Nitya Prakash Mohanty, Erina Young & Tasneem Khan, Pp. 12443–12450

Communications

Fish eating Cat Prionailurus viverrinus Bennett, 1833 (Carnivora: Felidae) distribution and habitat characteristics in Chitwan National Park, Nepal — Rama Mishra, Khadga Basnet, Rajan Amin & Babu Ram Lamichhane, Pp. 12451–12458


The herpetofauna of Jigme Singye Wangchuck National Park in central Bhutan: status, distribution and new records — Sangay Tshewang & Letro Letro, Pp. 12489–12498

The Odonata (Insecta) of Dhofar, southern Oman — Elaine M. Cowan & Peter J. Cowan, Pp. 12499–12514

New kissing bug (Hemiptera: Reduviidae: Triatominae) records from Napo and Morona-Santiago provinces with distribution updates in Ecuador — Ana Soto-Vivas, Sandra Enriquez, Ernesto Villarres, Jazzmin Arrivillaga, Pp. 12515–12522

Orchid diversity in two community forests of Makawanpur District, central Nepal — Bijaya Pant, Mukti Ram Paudel, Mukesh Babu Chand, Shreeti Pradhan, Bijaya Bahadur Mall & Bhakti Bahadur Raskoti, Pp. 12523–12530

Habitat distribution modeling for reintroduction and conservation of Aristolochia indica L. - a threatened medicinal plant in Assam, India — Bhaskar Sarma, Prantik Sharma Baruah & Bhaben Tanti, Pp. 12531–12537


A new report on the clasper movements of a captive Sand Tiger Shark Carcharias taurus (Lamniformes: Odontaspidae) and a possible reason for the behaviour — Helen Colbachini, Rafael Caprioli Gutierrez, Cristiane Schilbach Pizzuto & Otto Bismarck Fazzano Gadig, Pp. 12577–12581

New species of termite Pericapritermes travancorensis sp. nov. (Isoptera: Termitidae: Termitinae) from India — Jobin Mathew & Chinnu Ipe, Pp. 12582–12588


Notes

Two moth species of Lasiocampidae (Lepidoptera: Lasiocampoidea) recorded for the first time in Bhutan Jatshwosh Singh Irungbam & Meenakshi Jatishwor Irungbam, Pp. 12598–12601

New nymphalid butterfly records from Jammu & Kashmir, India — Shakra Sharma & Neeraj Sharma, Pp. 12602–12606

Argostemma khasianum C.B. Clarke (Rubiacaeae): a new record of a genus and species of flowering plant for the state of Arunachal Pradesh (India) and its lectotypification — Umeshkumar L. Tiwari & V.K. Rawat, Pp. 12607–12609


Cultivation of the Himalayan seasoning Allium in a remote village of Uttarakhand, India — Chandra Prakash Kuniyal & Bir Singh Negi, Pp. 12614–12617

Miscellaneous

National Biodiversity Authority


A new report on the clasper movements of a captive Sand Tiger Shark Carcharias taurus (Lamniformes: Odontaspidae) and a possible reason for the behaviour — Helen Colbachini, Rafael Caprioli Gutierrez, Cristiane Schilbach Pizzuto & Otto Bismarck Fazzano Gadig, Pp. 12577–12581

New species of termite Pericapritermes travancorensis sp. nov. (Isoptera: Termitidae: Termitinae) from India — Jobin Mathew & Chinnu Ipe, Pp. 12582–12588


Notes

Two moth species of Lasiocampidae (Lepidoptera: Lasiocampoidea) recorded for the first time in Bhutan Jatshwosh Singh Irungbam & Meenakshi Jatishwor Irungbam, Pp. 12598–12601

New nymphalid butterfly records from Jammu & Kashmir, India — Shakra Sharma & Neeraj Sharma, Pp. 12602–12606

Argostemma khasianum C.B. Clarke (Rubiacaeae): a new record of a genus and species of flowering plant for the state of Arunachal Pradesh (India) and its lectotypification — Umeshkumar L. Tiwari & V.K. Rawat, Pp. 12607–12609


Cultivation of the Himalayan seasoning Allium in a remote village of Uttarakhand, India — Chandra Prakash Kuniyal & Bir Singh Negi, Pp. 12614–12617

Miscellaneous

National Biodiversity Authority