

Research Article

REPORT OF *DRYOCALAMUS NYMPHA* (DAUDIN, 1803) FROM PONDICHERRY UNIVERSITY CAMPUS, PUDUCHERRY AND CONSERVATION

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ABSTRACT

Dryocalamus nympha commonly called as common bridal snake, are belonging to colubridae family, it was observed in under bark and root of *Tectona grandis* and *Acacia auriculiformis* during moon soon season at central instrumentation facility building in Pondicherry University campus which is surrounded by lush vegetation. The species is uncommon in the region, according to IUCN, the *D. nympha* is listed under not evaluated category (NE), which is not reported by earlier studies in this region. In this study confirmed that *D. calamus* is the first report from Puducherry region. Hence, the authors exhibit the protection, maintenance, dynamics and the conservation aspect of *D. nympha* in the lights of prevent for extinct status due to anthropogenic influence.

Keywords: *Dryocalamus nympha*, Pondicherry University, Anthropogenic pressure, Conservation, South India.

INTRODUCTION

Dryocalamus nympha commonly called as common bridal snake, are belonging to colubridae family. Global distribution of *D. nympha* was recorded in Sri Lanka, Myanmar, Thailand, Cambodia, Vietnam, Laos and Burma. In India, this snake has distributed Andhra Pradesh, Orissa, and specifically Theni, Mayiladuthurai, Rameswaram and Kalpakkam nuclear campus of Tamil Nadu region (Boulenger, 1890; Smith, 1943; Ganesh, 2007; Ravichandran and Manju, 2010; Karunarathna and Amarasinghe, 2011; Pyron *et al.*, 2013; Ramesh *et al.*, 2013; Subramanian and Sathishkumar, 2013; Uetz and Hosek, 2013). This species has different vernacular names i.e., common bridal snake, vellore bridal snake, Vellethalayan, Geta Karawala/Radanakaya and it is originated from vertebrate (Smith, 1943; Radhakrishnan 1997; Murthy and Ravichandran 1998; Ruchira, 2004). Generally, it was found mainly in dryer plains, wood land and grassland

covered foot hills and feeds mostly lizards than frogs and small animals.

Pondicherry University covered 780 acres harbors of total land mass, which account for rich tropical floral (537 species) and faunal diversity (197 species) located in coromandal coast of India (Parthasarathy *et al.*, 2010, Priya Davidar *et al.*, 2010). Mean annual rainfall 1300 mm, dry season January to June, the summer periods reported in too, temperature in maximum 23.9° C in January and minimum 20.9° C. The land covered by red ferralic, lateritic sandy and heavily drained. Since quarter century, our university landscape has been modified due to building, road, lawn and ornamental development (Parthasarathy *et al.*, 2010). Further, the author aimed to report the *D. nympha* in Pondicherry region.

Faunal Systematic Hierarchies

Kindom : Animalia
Class : Reptilia
Order : Squamata
Suborder : Serpentes

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Family : Colubridae
Genus & Species : *Dryocalamus nympha*
(Karunaratna *et al.*, 2011)
Synonym : *Coluber nympha* (Daudin
1803)

-white headed/
Geta Karawala/Radanakaya –
Sinhala (Ganesh, 2007;
Ruchira, 2004).

Vernacular Name

English : Common bridal snake,
Vellore Bridal snake

Tamil : Churutta/ Vellethalayan

MATERIALS AND METHOD

Study Site

Pondicherry University is situated along the coromandal coast of India, and located between 12°097' N 79°51.33' E. (Figure 1).

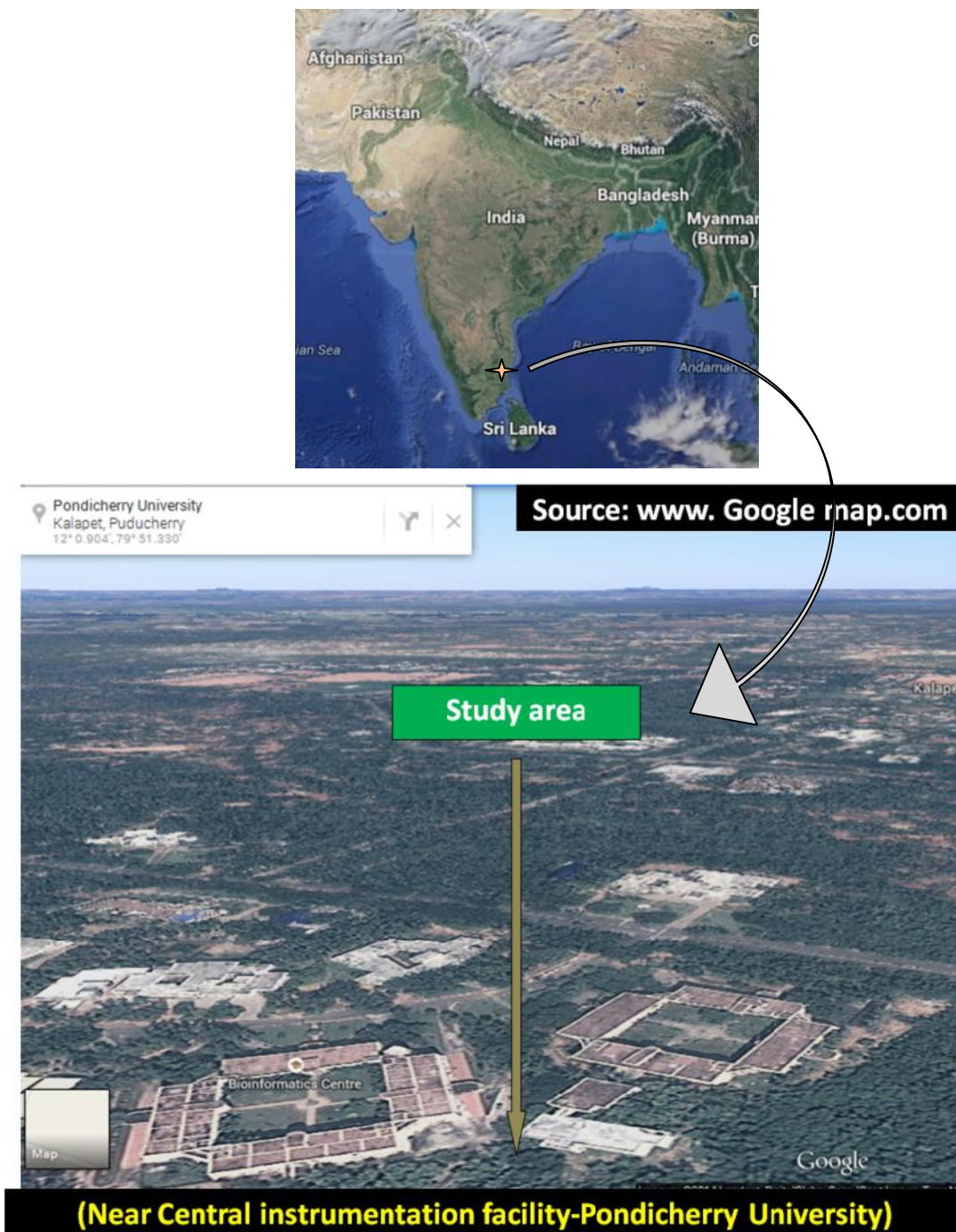


Figure 1. Study area map of *D. nympha* located in Pondicherry University, India.

Field Observations and Identification

Live snake was examined by standard method (Russell, 1796; Daudin, 1803). This snake identification was done with Ganesh *et al.*, (2009) scale counts with the help of magnifying hand lens and values taken in millimeter by standard method (Daudin, 1803; Merrem 1820; Boulenger, 1893; Ganesh, 2007; Sharma, 2004; Wrobel 2004). Live part of snake photographs have been taken from canon Sonny DSC-W270 in natural environment. Nomenclatural discussions strictly followed in the 1st edition of the Elsevier's Dictionary of Reptiles (Ganesh and Chandramouli, 2011).

RESULTS

D. nympha was observed in under bark and root of *Tectona grandis* and *Acacia auriculiformis* during moon soon season at central instrumentation facility building in Pondicherry University campus which is surrounded by lush vegetation (Figure 2). According to IUCN, *D. nympha* are uncommon in this region, are listed under not evaluated category (NE), and it is protected by wild life protection act under schedule IV, which is not reported by earlier studies. Hence, this study is confirmed that *D. nympha* is first reported from Puducherry region.



Figure 2. *Dryocalamus nympha* in Pondicherry university campus, India

Salient features: In the present study, *D. nympha* has dark brown color with series of irregular white stripes, creamy yellow in ventral area, large eyes with vertical pupils, 235 mm length in size long tail, rounded snout, narrow tip, oval shaped and dorso-ventrally flat head that broad and depressed in later, non venomous lifestyle. The body is slender, cylindrical and uniform girth.

Scalation: This snake specimen exhibits 13 rows of scales with smooth mid body, 243 ventral scales, vertical bars fall over 3 scales with black

spot, single loreal and 75 subcaudal that confirmed the identity of *D. nympha*.

Ecological Behavior: This species is oviparous, terrestrial and above the trees by climbing around the Pondicherry university campus. This snake takes prey from skinks, frogs, geckos, small reptile eggs and lizards for their diet, so it plays a vital role to maintain the ecological food chain and food web. Day time visible an under the dry leaves and human habitations, during anthropogenic pressure may twists knots itself and no attack.

DISCUSSIONS

The habitat alteration and landscape degradation leads to quantitative and potential reduction of reptile species from conserved region (Tamil Nadu Government Gazette 2009; Parthasarathy *et al.*, 2010; Subramanian and Sathishkumar, 2013). The longstanding issues of intensive developmental activities, new establishments within Pondicherry university campus leads to species loss and reducing natural vegetation leads to declining of reptiles species in Puducherry region. For maintenance of fundamental ecosystem function could be require larger patches of tropical forest for conserve populations of sensitive species (Laurance, 2005). According Pattanaik *et al.*, (2009), conservation proposal are well documented in India (Orissa) for save the biodiversity. In contrast, our studies focused to save to this species biodiversity based on literature cited above in terms of protection, maintenance and dynamics for conservation aspect in Pondicherry University campus.

CONFLICT OF INTERESTS

The authors declare that there are no conflicts of interests associated with this article.

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Commonly called University of Pondicherry, Pondicherry University is a public university located at Puducherry (previously known as Pondicherry), a Union Territory in India. This university is spread over the union territories of India, Andaman & Nicobar Islands, Lakshshadweep, and Pondicherry. There are so many colleges which are affiliated to this university, as well as the university is also having a center for distance education.Â The vibrant campus of Puduchery University comprises of 15 Schools, 37 Departments and 10 Centres offering 175 PG & Research programmes extended over an area of 800-acres of land. It is located at a distance of just 12 kms. away from the Puducherry town. Schools and departments of Pondichheri Universities.