A Big Earth Data Platform for Three Poles

**Multiple lines of evidence reveal a new species of Krait (Squamata, Elapidae, Bungarus)**

1、Description

Kraits of the genus Bungarus Daudin 1803 are widely known venomous snakes distributed from Iran to China and Indonesia. Here, we use a combination of mitochondrial DNA sequence data and morphological data to describe a new species from Yingjiang County, Yunnan Province, China: Bungarus suzhenae sp. nov. Phylogenetically, this species forms a monophyletic lineage sister to the Bungarus candidus/multicinctus/wanghaotingi complex based on cyt b and ND4 genes but forms a ister species pair with the species B. magnimaculatus Wall & Evans, 1901 based on COI gene fragments. Morphologically, B. suzhenae sp. nov. is similar to the B. candidus/multicinctus/wanghaotingi complex but differs from these taxa by a combination of dental morphology, squamation, coloration pattern, as well as hemipenial morphology. A detailed description of the cranial osteology of the new species is given based on micro-CT tomography images. We revised the morphological characters of B. candidus/multicinctus/wanghaotingi complex and verified the validity of three species in this complex. The distribution of these species was revised; the records of B. candidus in China should be attributed to B. wanghaotingi. We also provide an updated key to species of Bungarus.

2、Keywords

Theme：Forest
Discipline：Terrestrial Surface
Places：Yunnan, Bungarus, Yingjiang
Time：Recent

3、Data details

1.Scale：None

2.Projection：

3.Filesize：200.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：45.0 | - |
| west：80.0 | - | east：130.0 |
| - | south：20.0 | - |

5、Time frame:2018-08-31 16:00:00+00:00--2021-03-31 16:00:00+00:00

6、Reference method

References to data:

SHI Jingsong. Multiple lines of evidence reveal a new species of Krait (Squamata, Elapidae, Bungarus). A Big Earth Data Platform for Three Poles, doi:10.3897/zookeys.1025.623052021

References to articles:

Chen, Z. N., Shi, S. C., Vogel, G., et al. (2021). Multiple lines of evidence reveal a new species of Krait (Squamata, Elapidae, Bungarus) from Southwestern China and Northern Myanmar. ZooKeys. 1025(1), 35-71.

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

name: SHI Jingsong
unit: Institute Of Vertebrate Paleontology And Paleoanthropology, Chinese Academy Of Sciences
email: shijingsong@ivpp.ac.cn