



DESCRIPTION OF A NEW SPECIES OF THE GENUS *ULOBORUS* LATREILLE FROM BANGLADESH (ARANEAE : ARANEIDAE)

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INTRODUCTION

Spiders of the genus *Uloborus* Latreille (Family: Uloboridae) are little known in the fauna of Bangladesh. The genus was first established by Latreille in 1806 with the type-species *Uloborus walckenaevirius*. In Bangladesh, Biswas, *et al.*, (1993) reported only one species from Jhenidah district. Although, several species of the genus are known from different countries like - India (Tikder, 1969 & '70; Tikader & Biswas, 1981; Biswas & Biswas, 1992; Bhandari & Gajbe, 2001), Pakistan (Dyal, 1935), China (Hu, 1983; Zhu & Sha, 1983 ; Zhu, *et al.*, 1989 ; Chen & Gao, 1990; Chen & Zhang, 1991; Zhao, 1993), Japan (Yoshida, 1980, '81, '82a, '82b, '92 ; Shinkai & Takano, 1984 ; Yaginuma, 1986), Korea (Paik, 1978), U.K. (Roberts, 1995 ; Locket & Millidge, 1951), Hungary (Loksa, 1969), Germany (Wunderlich, 1976 ; Miller, 1971) and U.S.A (Kaston, 1948; Muma & Gertsch, 1964; Opel, 1979, '82, '83, '84, '91; Roth, 1994; Breene, *et al.*, 1993).

The present paper contains description of a new species *Uloborus chinmoyiae* sp. n. collected from the rice-field of village Shikerpur, district Jhenidah, Bangladesh. The materials were studied in the laboratory following Tikader (1987). The identity of the species were confirmed from the Zoological Survey of India, Kolkata.

The types are at present in the collection of the Department of Zoology, Government P.C.

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College, Bagerhat and will be deposited to the Museum of the Department of Zoology, University of Dhaka, Bangladesh, in due course of time.

SYSTEMATICS

Genus : *Uloborus* Latreille, 1806

1806. *Uloborus* Latreille, *Genera Crustaceorum et Insectorum*, I:109.
1850. *Uloborus*: Hentz, *Bost. J. H. H.*, 6: 25.
1975. *Uloborus*: Simon, *Ar. Fr.*, :244.
1895. *Uloborus*: Simon, *Hist. Nat. Araign.*, 1: 214.
1940. *Uloborus*: Comstock, *The Spider Book*, :262.
1948. *Uloborus* : Kaston, *Conn. St. Geol. Nat. Hist. Surv.*, 70:513.
1970. *Uloborus*: Tikader, *Rec. zool. Surv. India*, 64(1-4) : 4.
1981. *Uloborus* : Tikader & Biswas, *Rec. zool. Surv. India*, Occ. pap. 30:15.
1984. *Uloborus*: Shinkai & Takano, *Field guide to Spider of Japan* :187.
1986. *Uloborus*: Yaginuma, *Spiders of Japan in Color*: 15.
1990. *Uloborus*: Mauer & Hanggi, *Cat. der Swd. Ar.* :30.
1991. *Uloborus* : Chen & Zhang, *Fauna of Zhejiang, Araneida* :321.
1993. *Uloborus* : Zhao, *Spiders in Cotton fields in China* : 222.
1995. *Uloborus* : Barrion & Litsinger, *Riceland Spiders of South & Southeast Asia* :28.
1997. *Uloborus*: Platnick, *Adv. in Spider Taxonomy* : 250.

Table-1: Measurements (in mm) of different leg segments of *Uloborus chinmoyiae* sp. n.

Leg	Femur	Patella	Tibia	Metatarsus	Tarsus	Total
I	3.50/3.50	0.70/0.70	1.80/1.80	1.80/1.80	0.80/0.80	8.60/8.60
II	3.00/3.10	0.70/0.70	1.60/1.60	1.60/1.60	0.80/0.80	7.80/7.80
III	2.10/2.10	0.50/0.50	1.50/1.50	1.40/1.40	0.60/0.60	6.10/6.10
IV	4.00/4.00	0.80/0.80	2.00/2.00	2.00/2.00	2.00/2.00	9.70/9.70

1997. *Uloborus*: Mikhailov, *Cat. of Spiders of former USSR* : 31.

1999. *Uloborus*: Song, *et al.*, *The Spiders of China* : 80.

2002. *Uloborus*: Buchar & Ruzicka, *Cat. Spiders of Czech Rep.* : 30.

2004. *Uloborus*: Majumder, *Mem. zool. Surv. India*, **20**(2): 37.

2004. *Uloborus*: Gajbe, *Rec. zool. Surv. India*, Occ. pap. **227**: 28.

2005. *Uloborus*: Majumder, *Mem. zool. Surv. India*, **20**(3): 55.

2006. *Uloborus*: Platnick, *World Spider Cat.*, Version 6.0 : 622.

2009. *Uloborus*: Biswas : In Ahmed (ed.), *Flora & Fauna of Bangladesh*, Arachn., **18**(1): 366.

Diagnosis : The members of this genus are small to nearly large in size. Cephalothroax triangular, flat, variably coloured. Eyes dark, dissimilar; both rows recurved or nearly so. Chelicerae moderately robust, nearly parallel sided. Anterior legs largest; femora with dorsal trichobothria; tarsi with 3 claws; tibia I of males with 6-7 dorsal teeth like spines.

Abdomen broad, dark; anal tubercle prominent in female and reduced in male.

Type-species : *Uloborus walckenaerius* Latreille

Distribution : AFRICA; AMERICA; ASIA and EUROPE.

164. *Uloborus chinmoyiae* sp. n.
(Figs. 1-6)

Material examined :

Holotype : ♂, Jhenidah, 19.IX.1992 ; Coll. V. Biswas.

Paratype : Nil.

General : Cephalothroax and legs brownish;

abdomen dirty-white. Total body length (holotype) 4.25 mm. Carapace 1.30 mm long, 1.30 mm wide; abdomen 2.95 mm long and 2.05 mm wide.

Cephalothroax : broad, rounded, anteriorly narrowing and posteriorly broad, 2 lateral longitudinal band extended from anterior to posterior forming a longitudinal median white marking. Eyes white each ringed with black basal band; anteromedians slightly larger than the others; both rows of eyes recurved; anterior row strongly so. Chelicerae brown, strong, longer than wide, each of inner and outer margins with 1 and 3 teeth (fig. 2). Maxillae brown, flat, longer than wide, anteromedially wide, scopulate (fig. 3). Labium brown, medially wide, basally flat and anteriorly scopulate (fig. 3). Sternum brown, long, cylindrical, narrowed and pointed posteriorly (fig. 4). Legs long and slender, with few sharp spines; leg formula and the measurements (in mm) : 4123.

Male palp brown, strong as in figs. 5 and 6.

Abdomen : broadly oval, medially wide; dorsum without any decoration; median spinnerets broad, pointed, others similar. Female unknown.

Distribution : BANGLADESH : Jhenidah (type locality).

Etymology : The species is named after one of my friend Smt. Chinmoyi Chanda, Lecturer in Zoology, Gopalpur College, Dist. Tangail, Bangladesh.

Remarks : None of the *Uloborus* species (Tikader, 1970; Tikader & Biswas, 1981; Yaginuma, 1986; Koh, 1989; Shinkai & Takano, 1984; Locket & Millidge, 1951) are known to

posses a tubercle at the mid-anteriormost cephalic region which on either side bears anteromedian eyes, extremely elongate posteriorly narrowed sternum. The species as such is described as new to science.

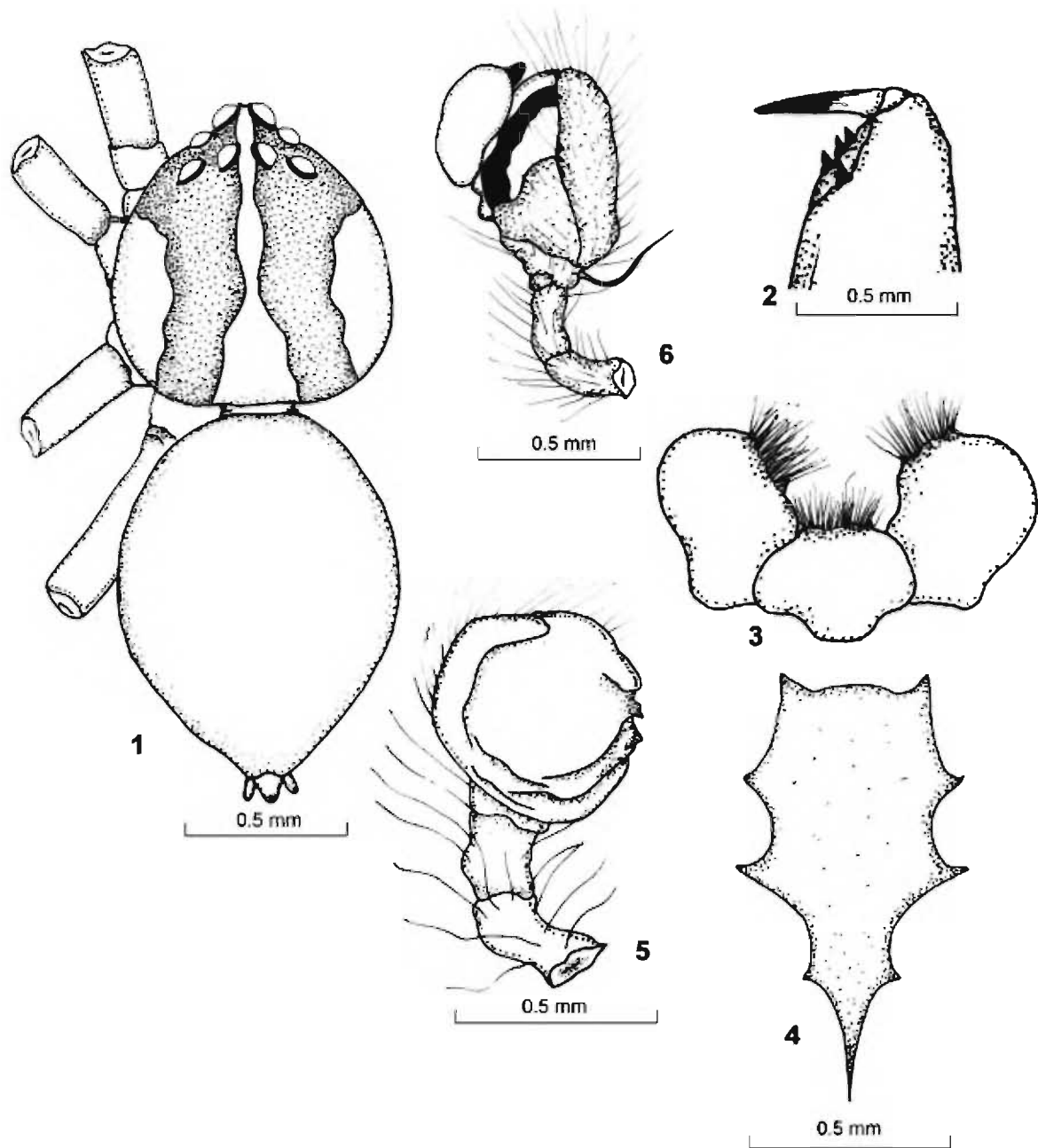
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Figs. 1-6 : *Uloborus chinmoyiae* n. sp. 1. Whole body (dorsal view); 2. Chelicerae; 3. Maxillae and Labium; 4. Sternum; 5. Male palp (ventral view); 6. Male palp (retrolateral view).