

Main links:[Title page](#) [Introduction & guides](#) [INDEXES_chapters & genera](#) [Open PDF printout of this file](#)

Salticidae (Araneae) genera of the world - an atlas
(unfinished manuscript)
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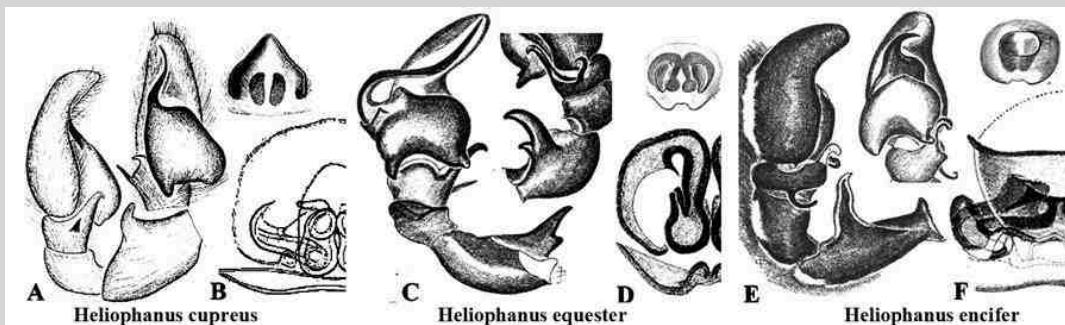


Chapter 4

HELIOPHANINES

informal group of genera
Version August 27th, 2020

Exemplary representatives of the group

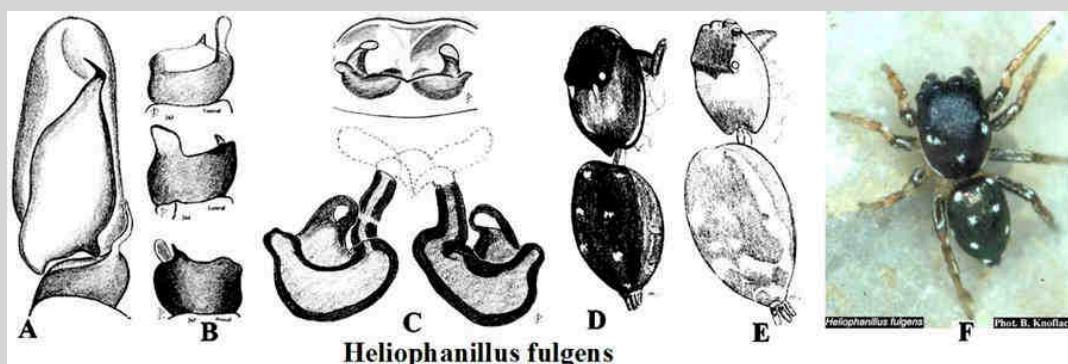


A-B - *Heliophanus cupreus*, C-D - *Heliophanus equester*, E-F - *Heliophanus encifer*, O-P - *Heliophanus dampfi* (male & female) (SOURCE - see below)

Composition and links. The following genera and subgenera (deserving elevation to full genera) are included: *Heliophanillus Heliophanoides* *Helaficanus* *Helicapensis* *Heliophanus* s.l. *Heliophanus Imperceptus* *Mexcala* *Paraheliophanus* *Tasa*. *Uncertain*

Gen. *Heliophanillus* Prószyński, 1989

Type species *Salicus fulgens*. (O. Pickard-Cambridge, 1872 (5 recognizable species))
See more species at [Heliophanillus-Q+M](#)

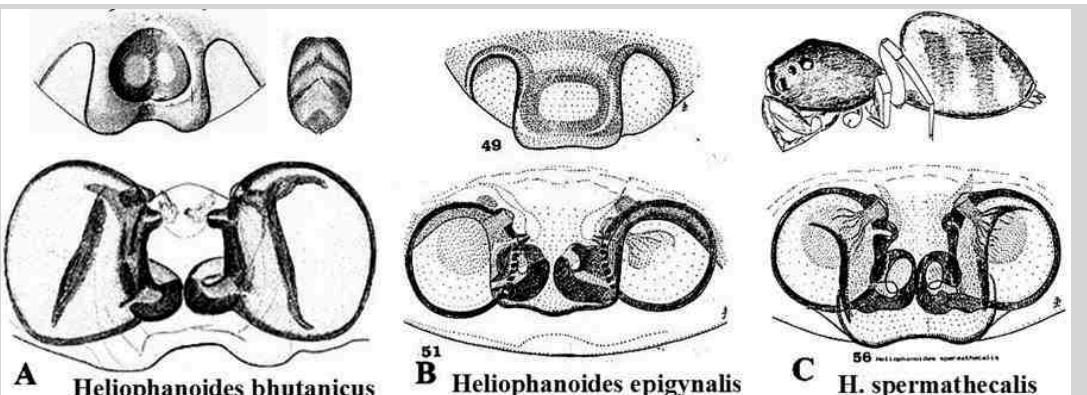


A-F - *Heliophanillus fulgens*.

SOURCES: A-E - Proszynski 2003b, Ann. zool. 2003: 71-72, f 261-268, F - ©Photo B. Knoflach.. All ©copyrights are retained by the original authors and copyright holders, used by their courtesy.

Gen. *Heliophanoides* Prószyński, 1989

Type species *Heliophanoides bhutanicus*. (5 recognizable species)
See more species at [Heliophanoides-Q+M](#)

**A** - *Heliophanoides bhutanicus*, **B** - *Heliophanoides epigynalis*, **C** - *Heliophanoides spermathecalis*.

SOURCES: A-C - Proszynski 1992b. *Annales zoologici*, 44, 9: 177-178, fig. 49-56. All ©copyrights are retained by the original authors and copyright holders, used by their courtesy.

Gen. *Helafricanus* (Wesolowska, 1986) (gen. upgraded)

Type species *Helafricanus patellaris* Simon, 1901 (49 recognizable species)

See more species [Helafricanus-Q](#)

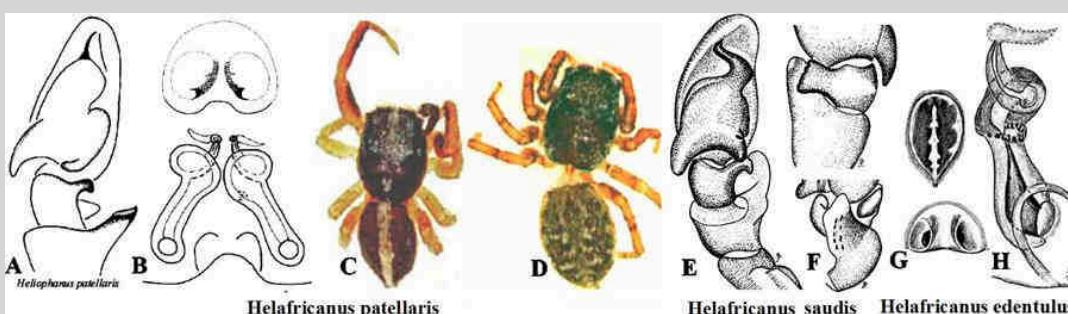
The subgenus *Helafricanus* subgen. n.

Type-species: *Heliophanus patellaris* SIMON, 1901.

Male pedipalp with big patellar apophysis and only small femoral protuberance. Epigyne with two openings separated by median septum, seminal ducts straight, directed anteriorly, spermathecae with tendency towards coiling. Body brown, abdomen with narrow white band at anterior margin and diagnostic leaf-like pattern dorsally.

Wanda WESOŁOWSKA A revision of the genus *Heliophanus* C. L. Koch, 1833 (Aranei: Salticidae)

Original description of the genus *Helafricanus* (then as a subgenus) Wesolowska 1986. *Annales Zoologici*, 40, 1: 8, 13.

**A-D** - *Helafricanus patellaris*, **E-F** - *Helafricanus saudis*, **G-H** - *Helafricanus edentulus*.

SOURCES: A-B - Wesolowska, 1986 *Annales Zoologici*, 40: 22, f. 163-175, C-D Wesolowska, Haddad C.R., 2014. *African Invertebrates* 55 (2), 245-246, f 30-31, 49-55, E-F - Proszynski 1989. Fauna Saudi Arabia. 10: 37, figs 5-8, G-H - Proszynski 2003a. *Annales Zoologici* 53, 1: 75-77, f 281-286. All ©copyrights are retained by the original authors and copyright holders, used by their courtesy.

Gen. *Heliocapensis* (Wesolowska, 1986) (gen. upgraded)

Type species *Heliocapensis peckhami* Simon, 1902 (13 recognizable species)

See more species [Heliocapensis-Q](#)

The subgenus *Heliocapensis* subgen. n.

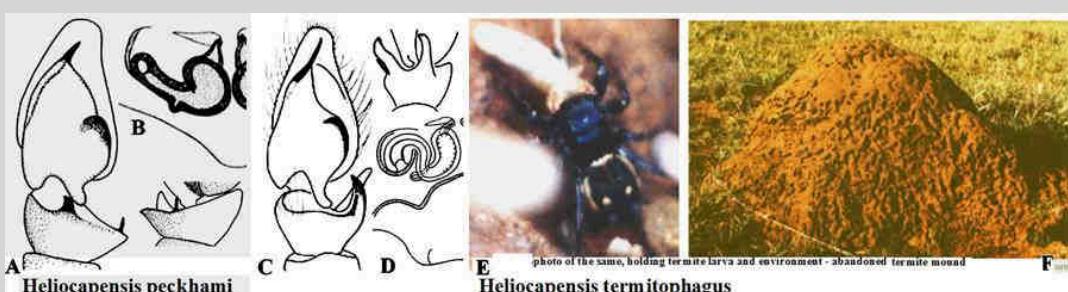
Type-species: *Heliophanus peckhami* SIMON, 1902.

Male pedipalp without patellar apophysis, femoral apophysis usually absent or small, tibial apophyses frequently bifid, shape of bulbus diagnostic, similar in all the species within the subgenus (fig. 18), embolus very short. Epigyne fairly large, with two openings, its posterior margin frequently triangularly elongated. Internal structures of genitalia relatively simple. Body black or dark brown, abdomen with narrow white band at anterior margin, dorsally with one or two pairs of white, most frequently slightly diagonal, marks (fig. 23).

The subgenus comprises 9 known species distributed in South Africa (8) and in the region of Gulf of Guinea (1).

Wanda WESOŁOWSKA A revision of the genus *Heliophanus* C. L. Koch, 1833 (Aranei: Salticidae)

Original description of the genus *Heliocapensis* (then as a subgenus) Wesolowska 1986. *Annales Zoologici*, 40, 1: 8, 13.



Scale of diversity within relatively uniform genus *Heliophanus*. **A-B** - *Heliocapensis peckhami*, **C-T** -, *Heliocapensis termitophagus*(**E** - photo of the same, holding termite larva, **F** - environment - abandoned termite mound).

SOURCES: A-B - Wesolowska 1986. *Annales Zoologici*, 40, 1: 8, 13, ff. 18-38, C-D - Wesolowska & Haddad 2002. *Tropical Zoology* 15 (1): 198, f 1-4. All ©copyrights are retained by the original authors and copyright holders, used by their courtesy.

Gen. *Heliophanus* s. l. Koch C.L.,1833 sensu lato

Type species *Aranea cuprea* Walckenaer, 1802 (77 recognizable species)
See more species *Heliophanus*-Q

The genus *Heliophanus* Koch C.L., 1833 s. l., one of largest in Salticidae and containing before present splitting 139 recognizable species, was revised by Wesolowska 1968, in a perfect study in which she has checked and documented numerous synonyms and delimited large number of new species. She has formalized structure of the genus by dividing it into three subgenera (disregarded in records of WSC): *Helafricanus* Wesolowska, 1986, *Heliocapensis* Wesolowska, 1986 and nominal subgenus *Heliophanus* Koch C.L., 1833 s. str., in which she supported earlier suggestion of Simon 1903. Now, after three decades of testing in research practice, the conclusions of Wesolowska are fully accepted and do not require revision. It seems, however, that there are no clear character mutual to her three subgenera, so upgrading them to full genera, with retaining the same diagnoses and contents, will facilitate identification and writing keys.. I have consulted proposal of upgrading with Dr Wesolowska and received her consent.

The original diagnoses and exemplary presentation of diagnostic characters are given below.

*FOOTNOTE. Reclassification of the above species could fit nicely into Memorial Volume of a prominent arachnologist (now in preparation, I am not authorized to betray name of the honored person), unfortunately edition of that Volume fallen into hands of barbarians which do not deserve any contact from me.

Gen. *Heliophanus* Koch C.L., 1833 s. str. (gen. upgraded)

Type species *Aranea cuprea* Walckenaer, 1802 (77 recognizable species)
See more species *Heliophanus*-Q

The subgenus *Heliophanus* s. str.

Type-species: *Salticus aeneus* HAHN, 1831.

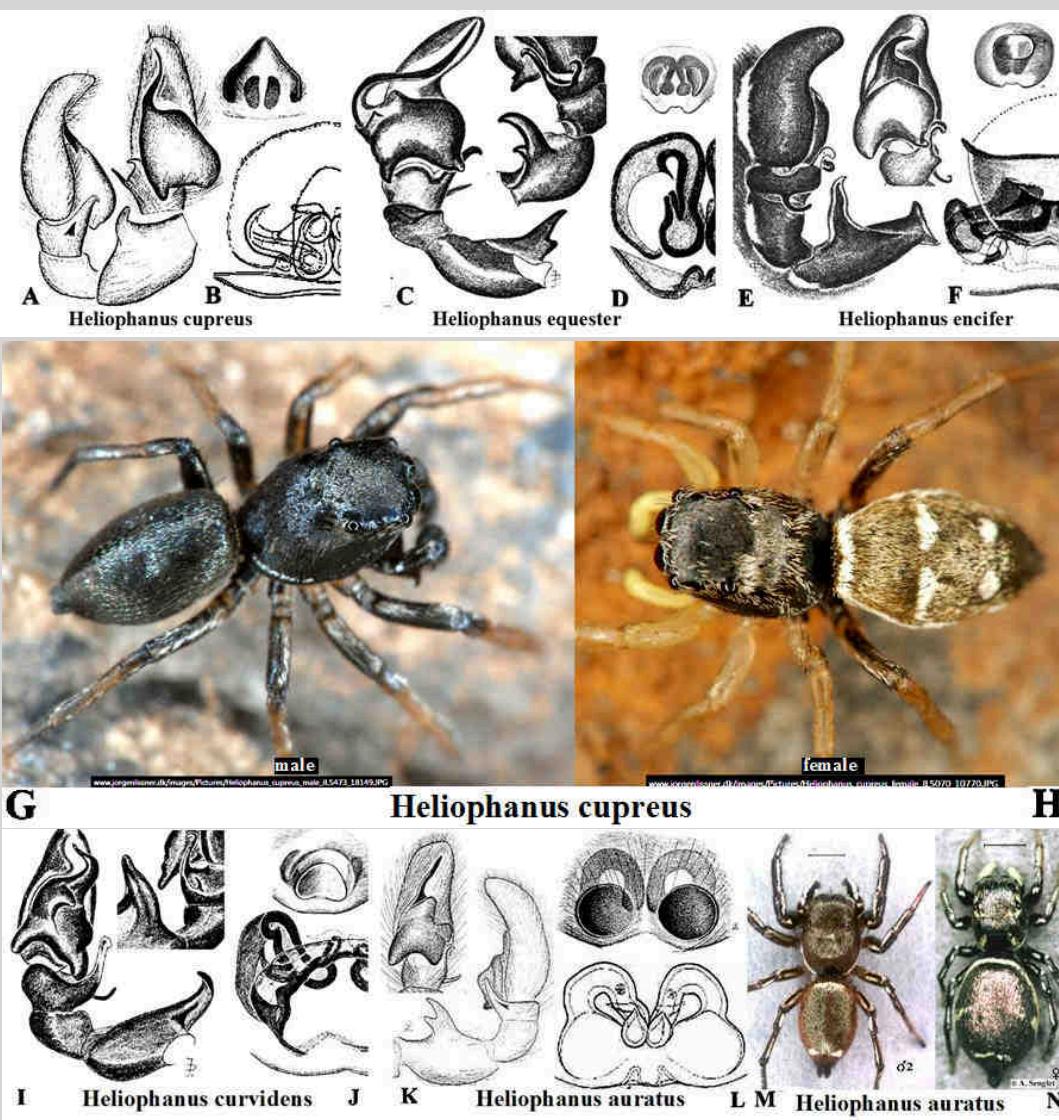
Femur of male pedipalp with big apophysis and additional protuberance proximally and ventrally from the apophysis. Epigyne with single large or two smaller openings separated by median septum, complication of internal structures of genitalia variable, diagnostic for the species. Body dark brown or black, frequently with a metallic sheen. Narrow white band at anterior margin of abdomen and generally one or two pairs of round white marks (fig. 691).

The most numerous subgenus, comprising 77 known species distributed in the Palaearctic and Ethiopian Regions.

The division of *Heliophanus* introduced here is based on suggestions of SIMON (1901b), who proposed to split the genus into three "sections" according to presence and location of apophyses either on femur or patella of male pedipalp.

Wanda WESOLOWSKA A revision of the genus *Heliophanus* C. L. KOCH, 1833 (Aranei: Salticidae)

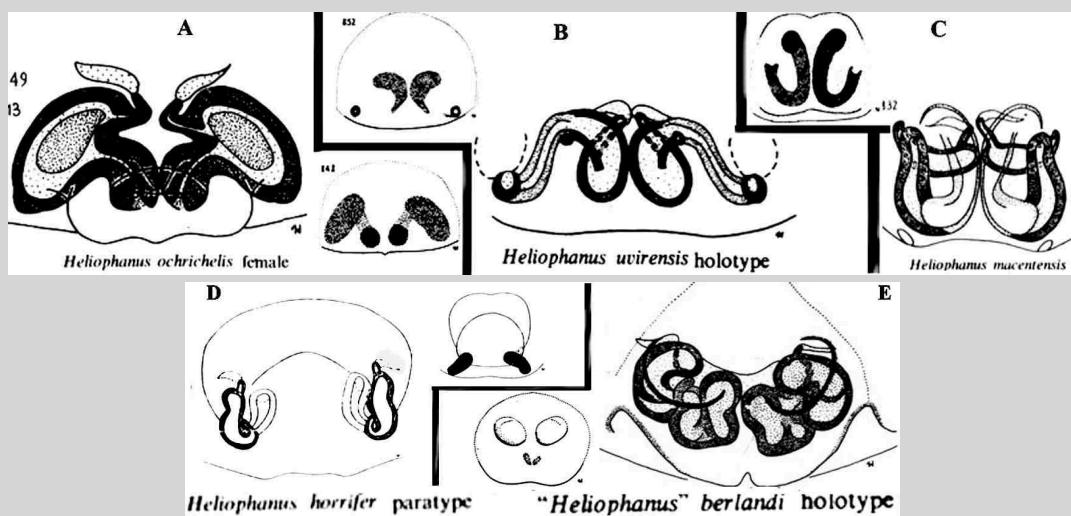
Original description of the genus *Heliophanus* (then as a nominal subgenus) Wesolowska 1986. *Annales Zoologici*, 40, 1: 8, 13.



**Heliophanus dampfi**

Scale of diversity within relatively uniform genus *Heliophanus* s. str. A-B, G-H -- *Heliophanus cupreus*, C-D - *Heliophanus equester*, E-F - *Heliophanus encipher*, I-J - *Heliophanus curvidens*, K-N - *Heliophanus auratus*, O-P - *Heliophanus dampfi* (male & female).

SOURCES: A-B - Zabka M. 1997. Fauna Polski 19: 5-187, figs 148-156, C-D - Prószyński, J. (2003). *Annales Zoologici*, 53: 77, f. 287-295, G-H - ©Photo J. Lissner, I-J - Proszynski 2003a. *Annales zoologici*: 72-73, figs 269-272, K-L - Zabka, 1997. *Fauna Polski* 19: : 56, f. 140-147, M-N - ©Photo A. Senglet, O-P - ©Photo J. Lissner. All ©copyrights are retained by the original authors and copyright holders, used by their courtesy.

Pending classification **UNCERTAIN *Heliophanus* Wesolowska, 1986** (5 species)

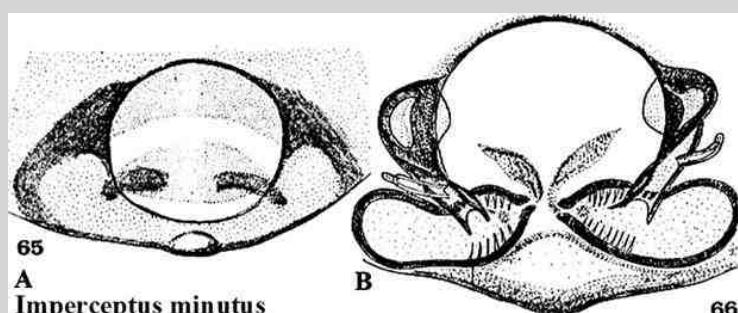
A - "uncertain *Heliophanus*" *ochrichelis*, B - *uvirensis*, C- *macentensis*, D - "uncertain *Heliophanus*" *horrier*, E - *berlandi*.

SOURCES: A-F - Wesolowska 1986. Ann. zool. 40, 1: 186, 231 f 871-872 +b) Wesolowska 1986. Ann. zool., 40, 1: 11, 227, ff. 829-830 +b) 11, 223, ff. 776-786+ c) 11, 228, ff. 848-849. All ©copyrights are retained by the original authors and copyright holders, used by their courtesy. .

Gen. *Imperceptus* Proszynski, 1992

Type species *Imperceptus minutus* Proszynski J. 1992 (1 recognizable species)

See more species *Imperceptus*-Q+M



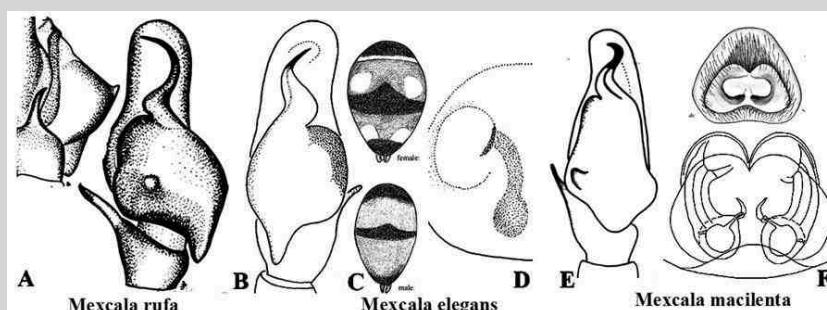
A-B - *Imperceptus minutus* Proszynski J. 1992b. Ann. zool. 44, 9: 181, f 65-66.

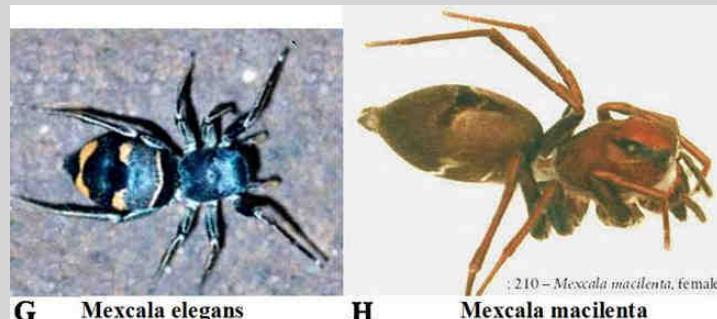
SOURCES: A-B - Proszynski J. 1992b. Ann. zool. 44, 9: 181, f 65-66. All ©copyrights are retained by the original authors and copyright holders, used by their courtesy.

Gen. *Mexcala* Peckham & Peckham, 1902

Type species *Mexcala rufa* Peckham & Peckham, 1902 (21 recognizable species)

See more species *Mexcala*-Q+M





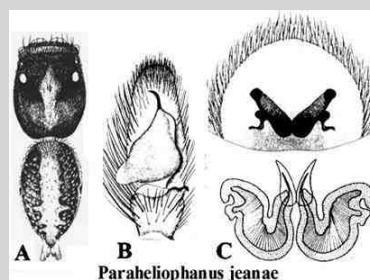
A - *Mexcala rufa*, B-D, G - *Mexcala elegans*, E-F, H - *Mexcala macilenta*.

SOURCES: A - Proszynski 1984a. Atlas rysunków diagnostycznych mniej znanych Salticidae (Araneae). Zeszyty Naukowe Wyższej Szkoły Rolniczo-Pedagogiczne, Siedlce: 83, B-D, G - Wesolowska, Haddad 2009. Afr. Invert. 50(1): 101-104. 158-161, f 2, E-F, H - Wesolowska W., A. Russel-Smith. 2000. Trop. Zool., 13 (1): 68-70, f 181-184, H - Wesolowska, Tomasiewicz, 2008. J. Af. Zool. 4: 26, photo 210. All ©copyrights are retained by the original authors and copyright holders, used by their courtesy.

Gen. *Paraheliophanus* Clark, Benoit, 1977

Type species *Paraheliophanus subinstructus* (O. Pickard-Cambridge, 1873) (4 recognizable species)

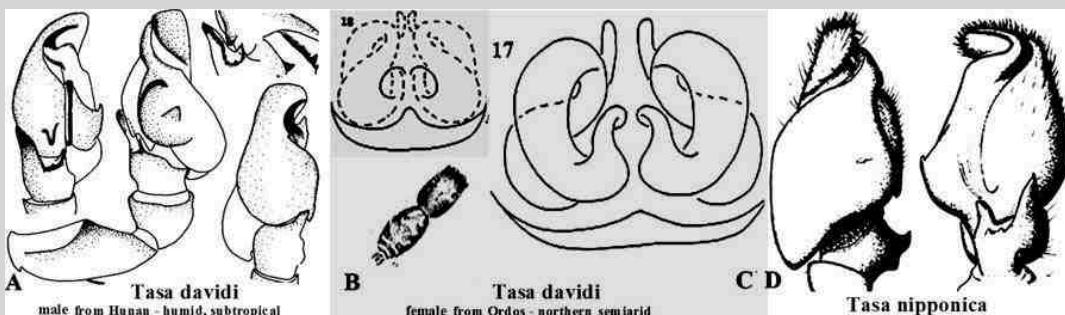
See more species [Paraheliophanus-Q+M](#)



Gen. *Tasa* Wesolowska, 1981

Type species *Thianella davidi* Schenkel, 1963 (2 recognizable species)

See more species [Tasa-Q+M](#)



A - *Tasa davidi* male, B-C - female of allegedly the same[?] species [conspecificity not documented, matching doubtful], D - *Tasa nipponica*

COMMENT: Male (A) described from Hunan province, which has humid, subtropical climate, female (B-C) from distant Ordos area in Inner Mongolia, China, which has north temperate semiarid climate, conspecific state of these specimens highly improbable, no premises to consider them even congeneric.

SOURCES: A - Wesolowska 1981b. Ann. zool. 36: 157-159, f 88-92, B-C - Peng, Gong, Kim 2000. Korean J. Soil Zool. 5 (1): 14, f 5-8, D - Bohdanowicz in Bohdanowicz, Prószynski, 1987. Annales zoologici, 41, 2: 143-144, f 300-30. All ©copyrights are retained by the original authors and copyright holders, used by their courtesy.

Contents of Heliophaninae by Petrunkevitch, 1928 (no such taxon in Simon 1901a).

HELIOPHANINÆ PETRUNKEVITCH, 1928.		2126
Pam.	Salticidae.	Type : <i>Heliophanus</i> .
	<i>Huriæ</i> : SIMON, 1901a, pp.518, 583.	
	<i>Chrysillew</i> : SIMON, 1901a, pp.519, 539; 1937, pp.1152, 1155, 1247.	
	<i>Eophrædæw</i> : SIMON, 1901a, pp.519, 539; 1903a, p.1052; 1937, pp.1152, 1155, 1251.	
	<i>Heliophantine</i> : PETRUNKEVITCH, 1928b, pp.59, 202; 1939a, p.183.	
HELIOPHANINÆ : Akela, Almotia, Atelurius, Ceglusia, Chrysilla, Cosmophasis, Cyllobelus, Echinussa, Epocilla, Evophrys, Heliophanus, Hurius, Iona, Maltecora, Orsima, Pelegrina, Phintella, Phintia, Rhondes, Rhyphebia, Scoturius, Stridullatus, Telamonia, Tutelina.		
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