

***Pholcus yoshikurai* Irie, 1997**

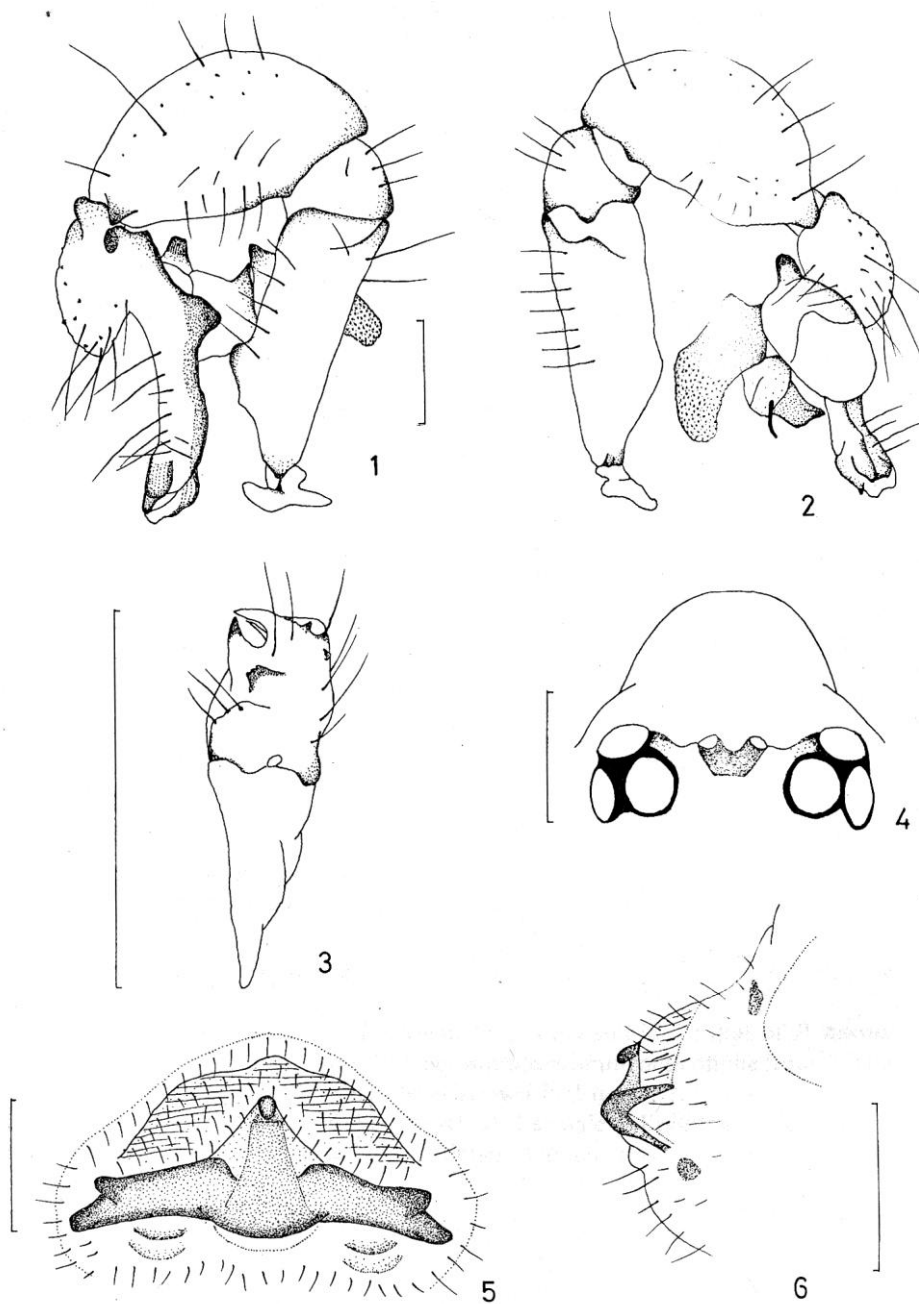
Irie, T. 1997. Two new species of the genera *Pholcus* and *Spermophora* (Araneae:Pholcidae) from the Kyushu, Japan. Acta arachnol. 46(2): 133-138.

p. 133

***Pholcus yoshikurai* sp. nov.**
(Figs. 1-6)

Measurements of holotype and allotype (♂/♀; in mm). Body length 6.80/6.99. Carapace length 1.82/1.99. width 1.62/ 1.52. Abdomen length 4.98/5.00. width 1.52/2.08. Length of legs as shown in Table 1. Eye sizes: AME 0.07/0.10, ALE 0.22/0.21, PME 0.25/0.22, PLE 0.25/0.20. Distances between eyes: AME-AME 0.01/0.05, PME-PME 0.42/0.28, ALE-ALE 0.55/0.37. OA length 0.37/0.35, width 1.00/0.80. Cp 0.25/0.32.

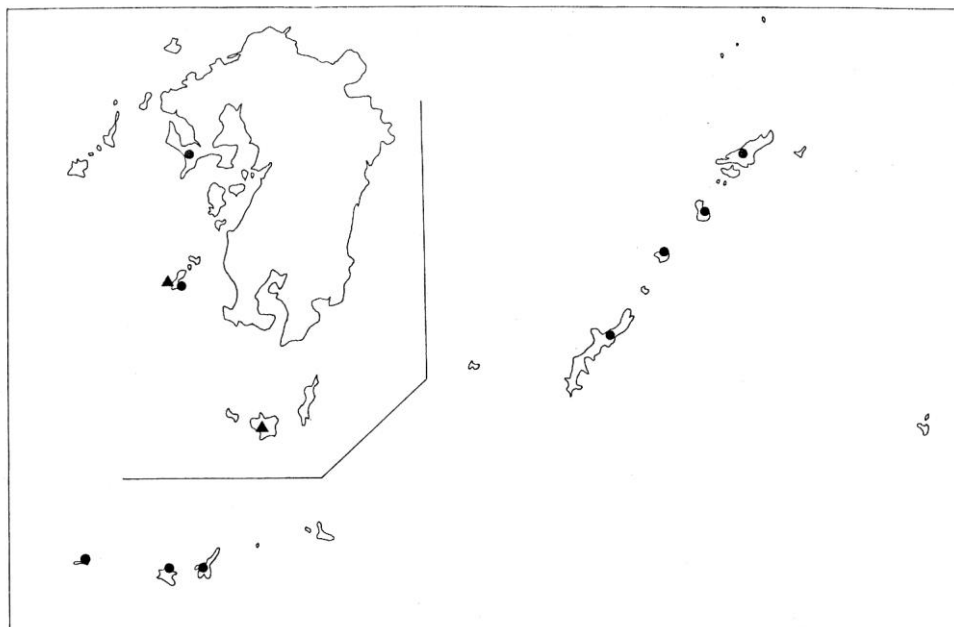
Male (Holotype): Carapace grayish yellow; slightly longer than the width, with gray dorsal pattern similar to those of *P. nagasakiensis* STRAND, 1916 and *P. bessus* ZHU et GONG, 1991. Eight eyes on the cephalic tubercle, arranged in three groups as usual in the genus *Pholcus*. Rows of anterior eyes are procurve. Chelicera light brown; armed with three teeth-like prominences on the front and a long two teeth on the inner margin of fang furrow. Sternum brownish yellow in back ground; mottled with pale gray patches. Legs very long, brown in back ground, with yellowish white annulations in tip



Figs. 1-6. *Pholcus yoshikurai* sp. nov. —1. male Left palp, exo-lateral view. 2. Same, endo-lateral view. 3. Chelicera of male, left ventral view. 4. Eye group of male, dorsal view. 5. Epigynum, ventral view. 6. Same, lateral view. (Scales: 0.5 mm.)

Table 1. Measurements of legs of *Pholcus yoshikurai* sp. nov. (♂/♀: in mm)

Leg	Femur	Patella+Tibia	Metatarsus	Tarsus	Total
I	12.55/11.28	12.95/12.25	23.80/20.05	3.20/3.00	52.50/46.58
II	9.45/8.48	9.95/8.71	14.65/12.85	1.85/1.82	35.90/31.86
III	7.05/6.55	7.90/6.45	9.58/8.96	1.54/1.28	26.07/23.24
IV	9.45/8.98	8.95/8.38	13.20/12.15	1.90/1.78	33.50/31.29

Fig. 7. Distribution of *Pholcus nagasakiensis* STRAND, 1916 and *Pholcus yoshikurai* sp. nov. in the Kyushu, ●: *P. nagasakiensis*; ▲: *P. yoshikurai*.

of the femur and tibia. Leg formula 1, 2, 4, 3. Abdomen cylindrical, pale yellowish gray with brownish gray patterns.

Male palp: The uncus reddish dark brown; J's shaped similar to that of *P. bessus* and *P. spilis* ZHU et GONG, 1991, also with many minute prominences on the front. The prokursus reddish dark brown, the structure as shown in Figs. 1, 2.

Female (Allotype): Legs shorter than those of the male. Epigynum glossy light brown, the structure as shown in Figs. 5, 6. Other characters as same as in the male holotype.

Type series. Holotype: ♂, Miyanoura, Kamiyaku-chō, Yakushima Island, Kagoshima Prefecture, Japan, 8-VIII-1991, T. IRIE and N. KINOSHITA leg. (NSMT-Ar 3566); allotype, ♀, Kawahara, Kamiyaku-chō, Yakushima Island, Kagoshima Prefecture, Japan, 9-VIII-1991, T. IRIE and N. KINOSHITA leg. (NSMT-Ar 3567). Paratypes: 1 ♀ 1 ♂, Anbō, Yaku-chō, Yakushima Island, Kagoshima Prefecture, Japan, 17-VIII-1957, M. YOSHIKURA leg; 3 ♀ 2 ♂, Sebi, Shimokoshiki-son, Koshikishima Islands, Kagoshima Prefecture, Japan, 9-X-1993, T. IRIE and J. IRIE leg; 2 ♀ 1 ♂,

Miyanoura, Kamiyaku-chō, Yakushima Island, Kagoshima Prefecture, Japan, 16-VII-1997, T. IRIE and J. IRIE leg..

Variation (in mm). Body length ♂ 6.32-6.90, ♀ 6.72-7.65.

Distribution. Yakushima Island and Koshikishima Islands, Japan (Fig.7).

Remarks. This new species is similar to *P. bessus* and *P. spilis*, known from China, in shape of the uncus, but is easily distinguishable from other structure of male organ and epigynum.

Etymology. The species is dedicated to Dr. Makoto YOSHIKURA, Kumamoto Prefecture, Japan.

Irie, T. 2009. Pholcidae. In: Ono, H. (ed.) *The Spiders of Japan, with Keys to the Families and Genera and Illustrations of the Species*. Tokai Univ. Press, Kanagawa, pp. 106-111, pl. 4-5.

p. 108

ヨシクラユウレイグモ (図 2-2-13-30~32)

Pholcus yoshikurai Irie, 1997

体長雌雄 6~7 mm. 背甲はほぼ円形で灰褐色. 中央後半に2個の暗褐色斑がある. 眼の前端線は前曲. 腹部は, 円筒形で淡灰褐色である. 背面には不明瞭な灰褐色の斑紋が散在する. 雄触肢附節の鉤状突起は黒褐色である. 歩脚は淡黄褐色. 屋内や樹木の根元, 谷川の岩陰などの薄暗い所に生息する. 甌島, 屋久島に分布する.

p. 109

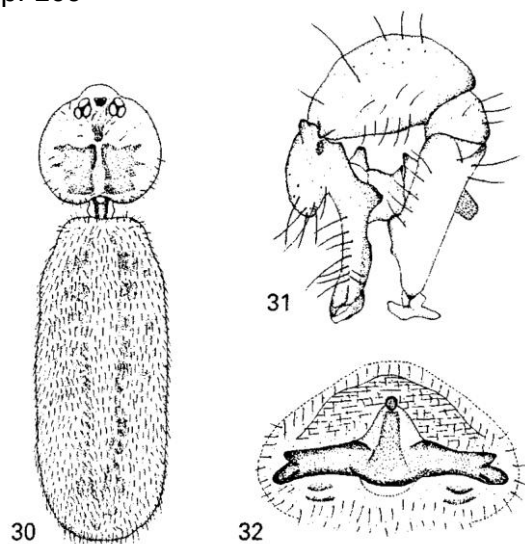


図 2-2-13-18~35.

yoshikurai :

30~32, ヨシクラユウレイグモ *Pholcus*

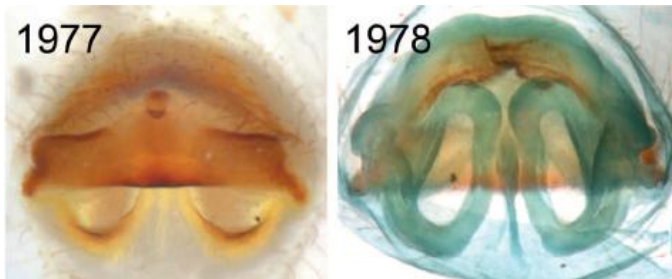
Huber, B. A. 2011. Revision and cladistic analysis of *Pholcus* and closely related taxa (Araneae, Pholcidae). Bonner zool. Monographien 58: 1-510.

p. 406



1950. *Ph. yoshikurai*, male, dorsal view.

p. 407



1977, 1978. *Ph. yoshikurai*.

p. 438

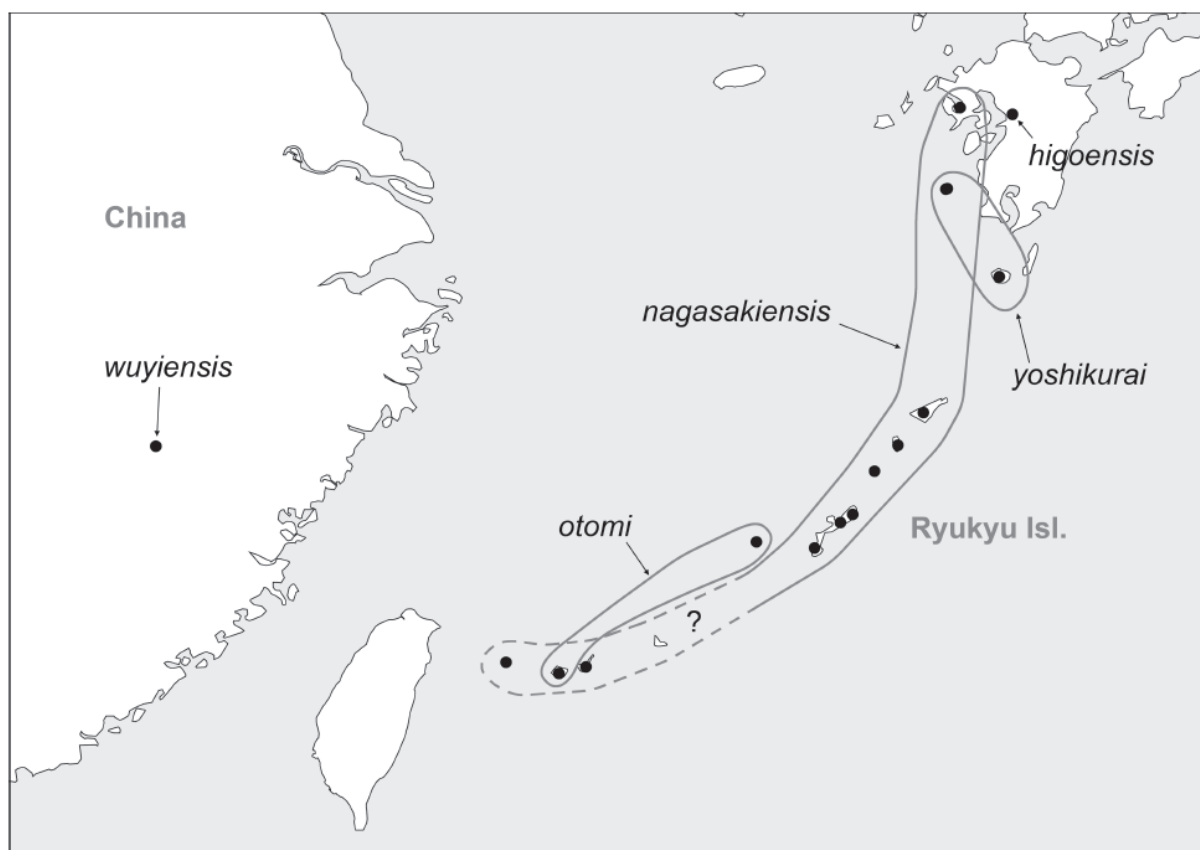


FIG. 2077. Known distribution of the *Pholcus nagasakiensis* species group. Most of the *Ph. nagasakiensis* localities are from Irie (1997); some of them (especially the southern ones) may represent *Ph. otomi*.

Pholcus yoshikurai Irie, 1997

Figs. 1950, 1977, 1978, 2091-2095

Pholcus yoshikurai Irie 1997: 133-136, figs. 1-7. Irie 2009: 108, figs. (2-2-13) 30-32 (31 and 32 copied from Irie 1997).

Types. Male holotype from Japan, Kagoshima Prefecture, Yakushima Island [30°20'N, 130°30'E], Kamiyaku-chô, Miyanoura, 8.viii.1991 (T. Irie, N. Kinoshita), in NSMT (Ar 3566), examined; female "allotype" from Kamiyaku-chô, Kawahara, 9.viii.1991 (T. Irie, N. Kinoshita), in NSMT (Ar 3567), examined. For further paratypes from Yakushima and Koshikishima Islands, see Irie (1997).

Diagnosis. Distinguished from congeners by male palpal morphology (Figs. 2091, 2092; shapes of procursus, unculus, and appendix), and female genitalia (Figs. 1977, 2095; shapes of epigynum and pore plates).

Male (type locality). Total body length 6.4, carapace width 1.9. Leg 1: 50.7 (12.2 + 0.8 + 12.3 + 22.5 + 2.9), tibia 2: 9.0, tibia 3: 6.3, tibia 4: 8.3, tibia 1L/d: 77. Habitus as in Fig. 1950. Specimen bleached, carapace with light brown mark divided posteriorly, ocular area also darker, clypeus not darkened, sternum light brown with many lighter dots, legs ochre-yellow, femora and tibiae with subdistal darker rings and light tips, patella area also darkened, abdomen monochromous whitish. Distance PME-PME 380 µm, diameter PME 175 µm, distance PME-ALE 60 µm, distance AME-AME 55 µm, diameter AME 105 µm. Ocular area elevated, each triad on low hump directed laterally. No thoracic furrow; clypeus unmodified. Chelicerae as in Fig. 2093, distal apophyses with two modified hairs each. Sternum wider than long (1.10/0.95), unmodified. Palps as in Figs. 2091 and 2092, coxa unmodified, trochanter with slender retrolatero-ventral apophysis, femur with ventral protrusion and very low indistinct prolatero-dorsal hump proximally, tibia large, procursus apparently without prolatero-dorsal spines, with distinctive membranous prolateral fringed process, unculus rather slender, embolus mostly weakly sclerotized (especially distally), appendix distally enlarged. Legs without spines and curved hairs, few vertical hairs. Retrolateral trichobothrium on tibia 1 at 7%; prolateral trichobothrium absent on tibia 1, present on other tibiae; tarsus 1 with >20 pseudosegments, but

only distally ~15 visible in dissecting microscope.

Variation. The holotype is extremely bleached; tibia 1: 12.5.

Female. In general similar to male but triads closer together (distance PME-PME 265 µm); tibia 1: 10.3, 11.3. Epigynum distinctive, much wider than long, roughly rectangular with anterior 'knob' (Figs. 1977, 2094); internal genitalia as in Figs. 1978 and 2095.

Distribution. Known from Yakushima and Koshikishima Islands, Japan (Irie 1997) (Fig. 2077).

Material examined. JAPAN: *Kagoshima Pref.*: Yakushima Island, Kamiyaku-chô, Miyanoura: ♂ holotype above; same locality, 16.vii.1997 (T. & J. Irie), 1♂1♀ in NSMT; Kamiyaku-chô, Kawahara: ♀ "allotype" above.

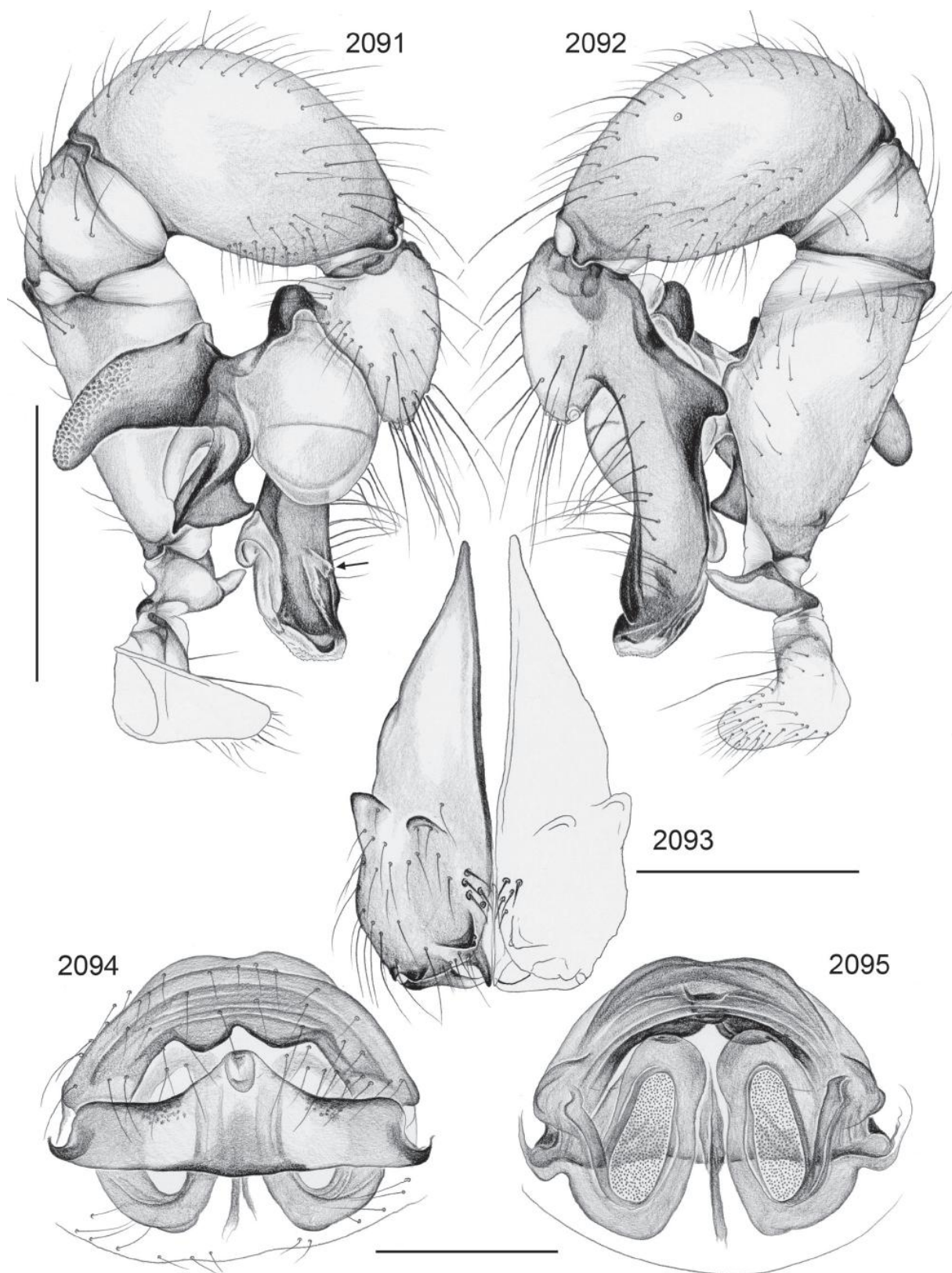


FIG. 2091-2095. *Pholcus yoshikurui*. 2091, 2092. Left male palp, prolateral and retrolateral views (arrow points at prolateral fringed process). 2093. Male chelicerae, frontal view. 2094, 2095. Cleared female genitalia, ventral and dorsal views. Scale lines: 1.0 (2091, 2092), 0.5 (2093-2095).