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DESCRIPTIONS OF TWO NEW SPECIES OF ARANEIDA FROM THE NORTHERN KURILE ISLANDS

BY

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(With two Text-figures)



Lately through the kindness of Dr. Y. Okada many valuable specimens of spiders collected by the exploring party on the Osaka-Mainich publishing firm in the summer of 1931 from some of the northern Kurile Islands, namely Shumushu, Paramushir and Araitō, have been handed to the author for the identification of the species. For this the author wishes here to express his heartiest thanks to Dr. Y. OKADA.

They have been identified with seven known genera covering ten known species and two new species:

- Xysticus limbatus* KEYSERLING
- Clubiona brevipes* BLACKWALL
- Clubiona frutetorum* L. KOCH
- Clubiona kurilensis* BÖS. et STRAND
- Theridion formosum* (CLERCK)
- Theridion araitense* n. sp.
- Theridiosoma gemmosum* (L. KOCH)
- Arctosa cinerea* (FABRICIUS)
- Pirata montanus* EMERTON
- Lycosa avida* WALCKENAER
- Lycosa riparia* C. L. KOCH
- Lycosa chisimensis* n. sp.

***Theridion araitense* n. sp. (fig. 1)**

Jap. name. *Araitō-himegumo*.

Cephalothorax glabrous, rather longer than broad, of the same length as the femur of the fourth pair, rounded in sides, narrowing just before the coxae of the first pair; the pars thoracica broadening forward, rounded in front, the

breadth of the clypeus equaling half that of the pars thoracica. Colour of cephalothorax brownish testaceous with a black longitudinal middle band, the breadth of which in the anterior part is the same as the clypeus; with a black marginal stripe. Anterior eyes nearly equal in size, black, being arranged in a slightly recurved row; the distance of the lateral ones from the central ones greater than that between the latter. The posterior eyes in a straight line, white in colour; the central eyes occur more distantly separated than those of the anterior row. The lateral eyes of both rows contiguous. The width and the length of the sternum nearly equal, representing a heart-shape, truncated before and pointed behind, rusty-brown in colour with a blackish margin. Chelicerae deep brown with long black hairs, small, perpendicular, the length about two times as long as the height of the clypeus; the inner margin of the furrow of the chelicerae armed with three teeth, the outer with two. Labium rather more broad than long, blackish brown at the root with white apex furnished with bristles. Maxillae brown, whitish at the apex, smooth and hairy, the length being twice as long as the breadth at the root. Palpi pale rusty-brown, with blunt bristles. The legs of the same colour as the palpi, coxae slightly darkened at the apex; the underside of the apex of coxae and trochanters provided with some blunt upturned bristles and the tibiae armed with three pairs of long and strong spines; metatarsi with two pairs of such spines on the under side. Each leg furnished with three tarsal claws.

Abdomen very high, truncated in front, gradually dilating backward, posterior pointed; it is thinly spread with short black hairs. The back of the abdomen is yellowish toward the sides, with a median rusty black band, which has three series of large black spots in it, two converging side series and a central one. Belly light sepia with two black stripes which extend from both spiracles to the spinnerets and meet together with the series of black spots of

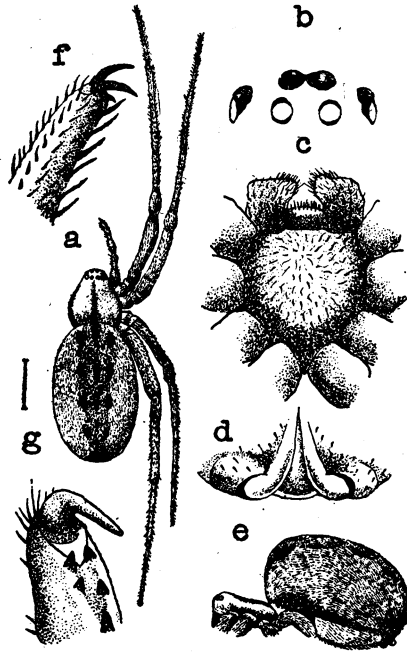


Fig. 1

Theridion araitense n. sp.

a, dorsal view. b, eye. c, sternum.
d, epigynum. e, lateral view. f,
tarsus of the fourth leg. g, chelicera.

the dorsal side at the anus. The epigynum represents $\perp$ -shaped depression, blackish brown in colour. Spinnerets of moderate length, an anterior pair brown, contacting with each other, other two pairs arranging transversely on a straight line.

Length of body, 7 mm.; length of cephalothorax, 3 mm., breadth of cephalothorax, 2.5 mm.; length of abdomen, 5.5 mm., breadth of abdomen, 3.5 mm.; height of abdomen, 4.0 mm.; length of legs: I, 8.5 mm., II, 8 mm., III, 7 mm., IV, 9 mm.

Locality: a single female was found in the specimens from Minamiura of Araitō Island collected on July 15.

Remarks: the species is akin to *Theridion formosum* (CLERCK) which is a well known form in the world. However, the present species is quite distinct in having the transverse septum in the epigynum which is not to be found in the other known species.

***Lycosa chisimensis* n. sp. (fig. 2)**

Jap. name. *Ao-chishima-dokugumo*.

Cephalothorax as long as patella+tibia of the first pair, its breadth equal to the length of the tibia of the fourth pair; the pars cephalica is moderately high and somewhat rounded. Colour brownish black with deep yellowish middle and submarginal bands tapering forwards and reaching backward to the pars cephalica. Anterior row of eyes nearly straight or more or less recurved; median eyes larger than the lateral and the separation of four eyes equal to $\frac{1}{2}$ the diameter of the lateral eyes. The area occupied by the posterior eyes represents a trapezoid which is shortest on the anterior and longest on the posterior side; the space between the two median eyes a little greater than the eye-diameter, the space between the medians and the laterals double the diameter of the latter. The length of chelicerae about two times as great as the breadth, yellow in colour; the outer margin of the furrow of the chelicerae having two and the inner three teeth. Labium black with a white fleck at the apex, the breadth double the length. Maxillae hairy, yellow in colour. Legs rather long, the fourth pair about four times as long as the cephalothorax, with a metatarsus equalling the length of the patella and tibia; coxae, trochanters and femurs with apical spines, tibiae with two pairs of spines. Colour of legs brown with deep black markings: four irregular markings on the femurs, four very indistinct ones on the tibiae and metatarsi; a marking at the apex of tarsi, on patellae and on coxae. Sternum brownish black, being strewed with erect black hairs, the space between the second coxae broadest, pointed behind.

Abdomen of the ordinary form, blackish brown above, with a lanceolate pale brownish band at the anterior part; behind this band, which does not reach to the middle of the back, two rows of black spots; belly uniformly

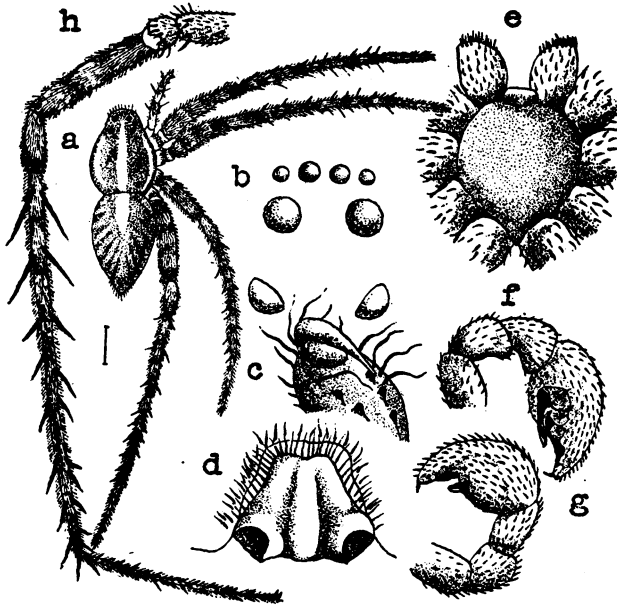


Fig. 2

Lycosa chisimensis n. sp.

a, dorsal view. b, eye. c, chelicera. d, epigynum.
e, sternum. f, palp of male (inside). g, palp of male (outside).
h, the fourth leg.

brown. Epigynum has a rather large corneous area for the genus, which gradually narrows forward, not pointed, and posteriorly truncated.

Length of body, 5.5 mm.; length of cephalothorax, 2.5 mm., breadth of cephalothorax, 2.0 mm.; length of abdomen, 3.5 mm., breadth of abdomen, 2.0 mm.; length of legs: I, 9.0 mm., II, 8.0 mm., III, 8.0 mm., IV, 11.5 mm.

Locality: two females were identified in specimens from Ichino-ura (Araitō), collected on July 21; four other females were from Mt. Shiriyajiri (Paramushir), obtained on August 3, and four males and two females from Kita-ura (Araitō) collected on July 17.

Remarks: the present species is near *Lycosa monticola* (CLERCK, 1757) which is common in Europe. Having the semicircular opening of the guide of the epigynum the present form is clearly distinguishable from the above species in which it appears merely as a slit-like opening.

摘 要

北千島産蜘蛛の二新種に就て

齋 藤 三 郎

1931年の夏大阪毎日新聞社の企圖せる北千島調査隊の採集せる蜘蛛の標本を岡田博士の御厚意に依り査定する機会を得、次の七屬十種、二新種を得茲に新種を報告す。

Xysticus limbatus KEYSERLING

Clubiona brevipes BLACKWALL

Clubiona frutetorum L. KOCH

Clubiona kurilensis BÖS. et STRAND

Theridion formosum (CLERCK)

Theridion araitense n. sp.

(アライトヒメグモ)

Theridiosoma gemmosum (L. KOCH)

Arctosa cinerea (FABRICIUS)

Pirata montanus EMERTON

Lycosa avida WALCKENAER

Lycosa riparia C. L. KOCH

Lycosa chisimensis n. sp.

(チシマアオドクグモ)

本稿を草するに當り岡田博士の御厚意に對し深甚なる謝意を表するものである。

(北海道帝國大學農學部動物學教室)