

punctate, with seven longitudinal rows of stronger punctures. Legs short, golden with darker shading; tibiae stout, rows of strong spines on outer sides, fore tibiae slightly curved; tarsi slender, without swimming hairs; tarsal segments in order of increasing length, fore 1, 3, 4, 2, 5, mid and hind 4, 3, 2, 1=5.

Male: unknown.

Length: 3.0mm (one individual).

LARVA: unknown.

MATERIAL EXAMINED: Lake Rotowhero, 7.i.67.

REMARKS: The single specimen was taken from among submerged vegetation along the margin of Lake Rotowhero, at a temperature of 34°C and pH 3.2.

The only species of *Paracymus* described from New Zealand, *P. pygmaeus* Macleay (= *P. nitidiusculus* (Broun)) is a wide-ranging species which is known to occur in Australia, New Zealand, New Caledonia, Fiji and Tahiti (Balfour-Browne, 1945). The specimen from Lake Rotowhero differs from published descriptions of *P. pygmaeus* in colour and size, but until further material is available for comparison no decision on its specific identity can legitimately be made.

#### Genus ANACAENA Thomson, 1859

#### *Anacaena tepida* n.sp. (Figs. 27–30.)

##### ADULT

A small, strongly convex species; shining; general colour black dorsally, dark brown ventrally.

Head black, sutures weak; maxillary palps short, brown, distal segment with dark tip; antennae 8-segmented, section formula 2.2.1.3, club brown.

Pronotum three times as broad as long, strongly convex, angles rounded, finely punctate, anterior margin sinuate. Elytra punctate, non-striate, finely stippled with black; pronotum and elytra golden but appearing black when held over abdomen at rest. Legs short, hind pair barely projecting beyond tip of abdomen; coxae and femora dark brown; tibiae golden, straight, with numerous stout golden spines; tarsi golden, sparsely distributed hairs at joints of mid and hind pairs; tarsal segments of fore legs short, 5th segment longest, those of mid and hind legs subequal.

Male external genitalia as in Fig. 30.

Length: 2.5–2.6mm (16 individuals).

LARVA: unknown.

HOLOTYPE: Male, and paratype female, Waipahihi Stream, Taupo, 7.viii.66, M. J. Winterbourn. Deposited in the collection of the Auckland War Memorial Museum.

OTHER MATERIAL: Waipahihi Stream, -.vi.66 (1); 7.viii.68 (8); Waimangu, 7.i.67 (4); Waiotapu Stream tributary, 6.viii.68 (1).

REMARKS: *A. tepida* occurs in still or slowly flowing water at the margins of thermal streams. Its known temperature range is 34–44°C. pH range 6.0–8.0.

No other species of the cosmopolitan genus *Anacaena* have been recorded from New Zealand.

#### KEY TO THE THERMAL HYDROPHILIDAE

##### A. ADULTS

- |  |                            |   |
|--|----------------------------|---|
| 1. Length > 4mm; swimming hairs on tibiae (few), and tarsi; maxillary palps slender, longer than antennae, second segment curved ..... | <i>Enochrus tritus</i>     |   |
| – Length < 4mm; swimming hairs on tarsi only or entirely absent; maxillary palps about as long as antennae .....                       | .....                      | 2 |
| 2. Hind tibiae curved; fringes of swimming hairs on mid and hind tarsi .....   | <i>Laccobius mineralis</i> |   |
| – Hind tibiae straight; without fringes of tarsal swimming hairs .....   | .....                      | 3 |
| 3. Anterior margin of pronotum sinuate; hairs present at tarsal joints; antennae 8-segmented .....                                     | <i>Anacaena tepida</i>     |   |