

Fig. 23. *Geothelphusa tawu*, new species. Holotype male, 18.4 by 14.2 mm. a: dorsal view; b: frontal view; c: ventral view of right G1; d: dorsal view of right G1; e: terminal segment of G1; f: ventral view of right G2. Scale = 1.0 mm.

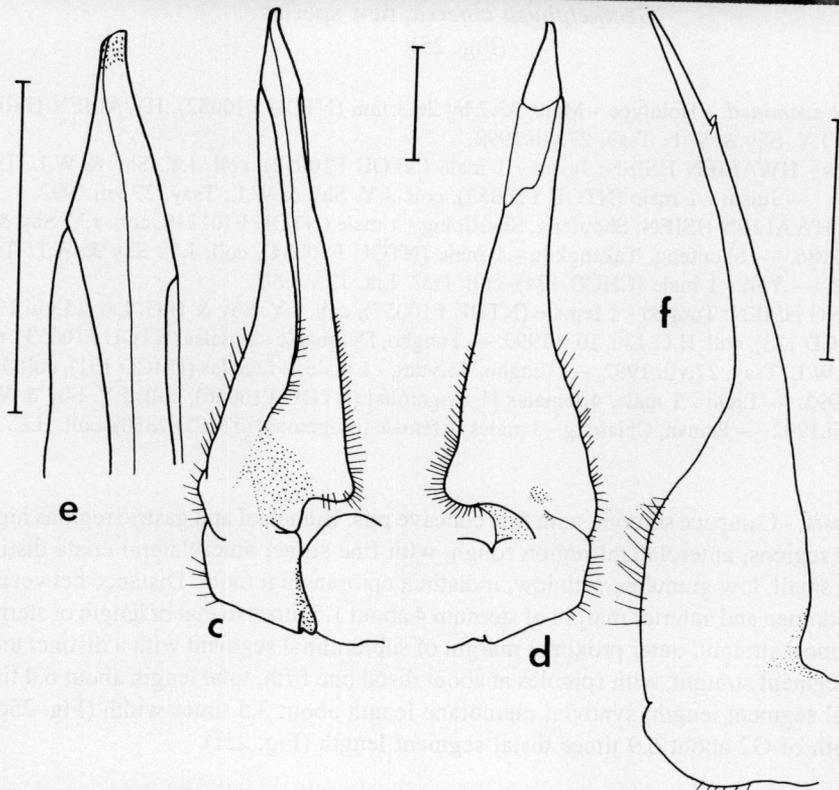


Fig. 24. *Geothelphusa lutao*, new species. Holotype male, 21.4 by 16.2 mm. a: dorsal view; b: frontal view; c: ventral view of right G1; d: dorsal view of right G1; e: terminal segment of G1; f: ventral view of right G2. Scale = 1.0 mm.

low, small granules, without epibranchial tooth. Distance between tip of male abdomen and anterior margin of sternite 4 about 1.6 times length of sternites 1-3. Propodus length of ambulatory legs equal to dactylus length. Width of male abdominal segment 6 about 2.4 times length. Outer proximal margin of G1 subterminal segment without or with faint tooth, G1 straight or slightly curved outwards; terminal segment gently curved inwards, about distal one-seventh with spinules (Fig. 24c-e).

Coloration. - Carapace purplish-red.

Habitat. - Not known.

Size. - Largest male 21.4 by 16.2 mm (NTOU F10200); largest female 23.8 by 17.7 mm (TMCD 2857); smallest mature female 15.7 by 12.0 mm (NTOU F10104).

Distribution. - Lutao Island, southeastern Taiwan.

Remarks. - The species is allied to *G. lanyu* and the differences for these two species have been discussed under the **Remarks** for *G. lanyu*.

Etymology. - The species is named after the type locality, and the name is used as a noun in apposition.

Geothelphusa cinerea, new species

(Fig. 25)

Material examined. - Holotype - Male, 33.7 by 26.3 mm (NTOU F10052), HWALIEN HSIEN: Juisui, coll. J.Y. Shy & W.L. Tsay, 27.viii.1992.

Paratypes - HWALIEN HSIEN: Juisui - 1 male (NTOU F10052), coll. J.Y. Shy & W.L. Tsay, 27.viii.1992. — Juisui - 1 male (NTOU F10055), coll. J.Y. Shy & W.L. Tsay, 27.viii.1992.

Others - HWALIEN HSIEN: Shoufeng, Shyrtiping - 1 male (NTOU F101210, coll. J.Y. Shy & K. Lee, 26.iv.1986. — Shoufeng, Takangkou - 1 male (NTOU F10054), coll. J.Y. Shy & W.L. Tsay, 28.viii.1992. — Yuli - 1 male (CHCD 134), coll. H.C. Lin, 12.v.1993.

TAITUNG HSIEN: Tungho - 1 female (NTOU F10057), coll. J.Y. Shy & H.G. Lai, 15.viii.1992; 1 male (CHCD 123), coll. H.C. Liu, 10.v.1993. — Tungho, Dergualao - 2 males (NTOU F10053), coll. J.Y. Shy & W.L. Tsay, 27.viii.1992. — Tungho, Taiyung - 1 male, 2 females (CHCD 131), coll. H.C. Liu, 11.v.1993. — Lichi - 1 male, 4 females [1 ovigerous] (NTOU F10056), coll. J.Y. Shy & W.L. Tsay, 27.viii.1992. — Peinan, Chiafong - 3 males, 1 female [ovigerous] (TMCD 2850), coll. H.C. Liu, 3.vi.1993.

Diagnosis. - Carapace smooth, with fine concave pits. Branchial and gastric regions higher than other regions, anterolateral region rough, with fine striae; anterolateral crista distinct, lined with small, low granules, with low, indistinct epibranchial tooth. Distance between tip of male abdomen and anterior margin of sternum 4 about 1.5 times to that of length of sternum 1-3. G1 almost straight, outer proximal margin of subterminal segment with a distinct tooth; terminal segment straight, with spinules at about distal one fifth, total length about 6.4 times of terminal segment length; synovial membrane length about 3.5 times width (Fig. 25c-e). Total length of G2 about 6.9 times distal segment length (Fig. 25f).

Coloration. - Carapace bluish-gray, chelae and ambulatory legs grayish, with faint scattered stripes.