



## ***Pele ramseyi*, a new genus and new species of anchialine swimming crab (Crustacea: Brachyura: Portunidae) from the Hawaiian Islands**

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### **Abstract**

A new genus and new species of anchialine portunid crab is described from lava pools in Maui, Hawaiian Islands. *Pele ramseyi* **new genus, new species**, resembles species of *Libystes* A. Milne-Edwards, 1867, but differs markedly in its reduced and almost immovable eyes, as well as the distinctive structures of the mouthparts, chelipeds, male abdomen and gonopods.

**Key words:** Decapoda, Crustacea, Brachyura, Portunidae, *Pele*, taxonomy, new genus, new species, Hawaiian Islands

### **Introduction**

Several taxa of rubble-dwelling and cavernicolous portunid crabs (*Carupa* Dana, 1851, and *Atoportunus* Ng & Takeda, 2003) have been discovered in recent years and all have been collected from open waters in the Indo-West Pacific region (Ng & Takeda 2003; Takeda 1993, 2003). No anchialine species (*sensu* Holthuis 1973) has been reported thus far. A new genus and new species is described here from anchialine lava beds in Hawaii (Fig. 1). While the new genus is superficially similar to *Libystes* A. Milne-Edwards, 1867, it differs in a number of important carapacial, cheliped, ambulatory leg, male abdominal and gonopodal characters. It is here described as a new genus and new species of carupine portunid.

The abbreviations G1 and G2 are used for the male first and second gonopods, respectively. Measurements taken (in millimetres) are of the carapace width and length, respectively. Specimens examined are deposited in the Bernice P. Bishop Museum (BPBM), Honolulu, Hawaii; Muséum national d'Histoire naturelle (MNHN), Paris; National Museum of Science and Technology (NSMT), Tokyo; and the Zoological Reference Collection (ZRC), Raffles Museum of Biodiversity Research, National University of Singapore.

### **Taxonomic account**

#### **Family PORTUNIDAE Rafinesque, 1815**

#### **Subfamily CARUPINAE Paul'son, 1875**

#### ***Pele*, new genus**

**Type species.** *Pele ramseyi* **new species**, by present designation.

**Diagnosis.** Carapace transversely ovate; dorsal surface smooth, without ridges, regions poorly defined (Figs. 2C, 3A, 4A, 5, 7A). Orbits small; eye barely mobile, eyestalk, cornea reduced; cornea weakly pigmented (Fig. 7A–C). Anterolateral margin arcuate, lined with small granules, with 4 or 5 larger tubercles; external orbital angle low (Fig. 5, 7A). Basal antennal segment subquadrate, surface unarmed, outer margin completely closing orbital hiatus; fla-