PANULIRUS POLYPHAGUS— A NEW SPINY LOBSTER RECORD FROM PAPUA NEW GUINEA

REX R. PYNE*

ABSTRACT

A female spiny lobster taken in the Gulf of Papua and identified as Panulirus polyphagus (Herbst, 1793), is described and illustrated as a new record for Papua New Guinea.

INTRODUCTION

COMMERCIAL exploitation of spiny lobster resources in Papua New Guinea has evolved around one species, the 'ornate spiny lobster' or Panulirus ornatus Fabricius. Four other species, viz., P. versicolor Latreille, P. penicillatus (Olivier), P. homarus Latreille, and P. longipes femoristriga (Von Martens), are also known to occur in Papua New Guinea waters (Pyne 1970; Rapson 1962).

A privately operated commercial prawn trawler, the M.V. Claire, M, fishing in Freshwater Bay, Gulf of Papua, took from the trawl catch a different species of spiny lobster, later identified by the author as Panulirus polyphagus (Herbst, 1793).

MATERIAL

One adult female of 244.3 mm total length, carapace length 85.2 mm, weight 292.2 g (see *Plate*) was taken at a depth of 13 metres by the prawn trawler M.V. *Claire M* on 23rd September, 1970, in Freshwater Bay (Lat. 8°10' S., Long. 146° E.).

DESCRIPTION

The antennular plate has two principal spines only, set well forward, the remainder of the plate being unarmed and smooth; colour is blue-green with a cream median longitudinal stripe. Antennular flagella have alternate bands of reddish-brown and cream.

Cephalothorax is divided into an anterior hepatic region with few spines and posterior branchio-cardiac region with many spines and tufted setae. Cervical groove is deep and smooth; hepatic groove shallow and smooth; cardiac and branchial grooves shallow with numerous tufted setae. Hepatic region bluegreen in colour, has spines with a green-brown base and cream tip. The tufted setae, reddish-brown in colour, obscure the blue-green colour of the branchio-cardiac region.

The specimen has a row of six cream spots on each side of the lateral regions of the carapace, the anterior spot being the largest; a small spine arises from each spot. From the posterolateral corner of the carapace to the region of the mouth parts runs a white stripe, terminating in a broad white patch. Another white stripe commences at the same place, running along the base of the legs. Walking legs are patched; joints cream with remainder cream, green or brown patches.

Each abdominal somite is smooth, with a black transverse band on the hind margin, and a narrow horizontal cream stripe which is broken on the first abdominal somite. Colour is blue-green pitted with cream spots.

Anterior third of telson and uropods are blue-green in colour with pitted white spots; remainder is reddish-brown.

ACKNOWLEDGEMENT

I wish to thank Captain I. Ellem, M.V. Claire M, for making this specimen available to me.

REFERENCES

Pyne, R. R. (1970). Tropical Spiny Lobsters, Panulirus spp. of Papua and New Guinea. Search, ANZAAS Sydney, 1(5):248-253.

RAPSON, A. M. (1962). The Tropical Crayfish (Panulirus ornatus Fabricius) in southern Papuan waters. Fish. Bull. Papua, No. 2.

(Accepted for publication March, 1971.)

^{*}Biologist, Department of Agriculture, Stock and Fisheries, Kanudi

