

## New Host and Locality Records for Copepod and Isopod Parasites of Colombian Marine Fishes

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**Abstract.**—Two copepods and three isopods, representing five families of Crustacea, are noted from ten hosts, eight of these representing new host records. *Cardiodectes rubosus* (Copepoda: Pennellidae) is reported from the Atlantic Ocean for the first time. *Excorallana tricornis* (Isopoda: Corallanidae) may be a more important fish parasite than previously thought.

Kensley and Schotte (1989) only reported two isopods associated with Colombian fishes, the *Anilocra abudedefdufi* and *Anilocra haemuli* that we described from Colombian fishes (Williams and Williams 1981). Few fish-parasitic copepods have been reported from Colombian fishes (Yamaguti 1963). One of us (C.J.S.), while working in Colombia, collected and identified numerous fishes, examined them for parasites, and found the five species of crustaceans described below. These parasites were retrieved with some difficulty on 14 April 1992 from an unsorted and unidentified collection sent to the U.S. National Parasite Collection (USNPC) on 22 June 1978. Histological preparations of these samples were unremarkable. All crustacean specimens were preserved in 70% ethanol and transferred to the Crustacean Collection of the U.S. National Museum (USNM).

*Excorallana tricornis* may be a more common fish parasite than previously noted. One new locality record is reported from the Atlantic Ocean, two from the Caribbean, and four from Colombia. Eight new host records are noted (Table 1).

### *Collipravus parvus*

Yamaguti (1963) listed Nassau, Bahamas, as the only location for the copepod *Collipravus parvus*, although Wilson (1917) also noted that he collected it in the Florida Keys, USA. Neither of these locations is in the Caribbean, and our record (Table 1) extends the known range 2,000 km, to the southern Caribbean. This is also a new host record.

### *Cardiodectes rubosus*

This is the first record of the copepod *Cardiodectes rubosus* from a host from the Atlantic Ocean (Table 1). We have collected this species from other fishes in Puerto Rico and the Bahamas, but none of these records have been published.

### *Excorallana tricornis*

We have found the isopod *Excorallana tricornis* associated with fishes around the Caribbean, but never in the abundance implied by this collection, which revealed five new hosts (Table 1). This isopod may be a more common fish parasite than previous records have indicated. The Caribbean records of Kensley and Schotte (1989) were all in the northern portion of the Caribbean. This record may be a range extension to the southern Caribbean.

### *Rocinela signata*

The isopod *Rocinela signata* has been reported from Colombia, where swarms of this isopod attacked human divers (Garzon-Ferreira 1990). Besides their new host (Table 1), these specimens have a more diffuse darkening of the central portion of the pleotelson rather than the normal distinct M-shaped pattern. This variation is insufficient to indicate a new species, because such variation has been recorded in the eastern Pacific Ocean (Menziés and Glynn 1968). Specimens we have seen from fishes from other Caribbean locations had the distinct M-shaped mark.

### *Cymothoa excisa*

The isopod *Cymothoa excisa* has been reported from Panama and Venezuela (Kensley and Schotte 1989); thus, its occurrence in Colombia (Table 1) is no surprise. The records of Kensley and Schotte (1989) and our unpublished Caribbean collections

TABLE 1.—Crustacean parasites of marine fishes collected near Cartagena, Colombia, and deposited in the U.S. National Museum (USNM).

Host	Parasite characteristics			Collection		USNM number
	Number and sex	Location in host	Size of host (cm)	Locality	Date	
<b>CLASS COPEPODA</b>						
<b>Family [uncertain]; <i>Collipravus parvus</i> Wilson</b>						
Herring <i>Jenkinsia lamprotaenia</i> <sup>b</sup>	1♀	Gills	3.6	Islas del Rosario <sup>a</sup>	27 Oct 1977	259648
<b>Family Pennellidae; <i>Cardiodectes rubosus</i> Leigh-Sharpe</b>						
False pilchard <i>Harengula clupeiola</i> <sup>b</sup>	1♀	Opercle	5.3	Laguito, Cartagena <sup>c</sup>	21 Nov 1977	259649
<b>SUBCLASS ISOPODA</b>						
<b>Family Coralanidae; <i>Excorallana tricornis</i> (Hansen)</b>						
Southern stingray <i>Dasyatis americana</i>	7	Spiracles		Bocachica, Cartagena <sup>d</sup>	2 Feb 1978	259650
Stingray <i>Dasyatis guttata</i> <sup>b</sup>	11	Spiracles		Bocachica, Cartagena	2 Feb 1978	259651
Porkfish <i>Anisotremus virginicus</i> <sup>b</sup>	6	Gills		Bocachica, Cartagena	2 Feb 1978	259651
Bandtail searobin <i>Prionotus ophryas</i> <sup>b</sup>	2	Gills		Bocachica, Cartagena	2 Feb 1978	259651
Lookdown <i>Selene vomer</i> <sup>b</sup>	3	Gills, fin		Bocachica, Cartagena	2 Feb 1978	259652
Spotted scorpionfish <i>Scorpaena plumieri</i> <sup>b</sup>	12	Gills		Bocachica, Cartagena	2 Feb 1978	259653
<b>Family Aegidae; <i>Rocinela signata</i> Schioedte and Meinert</b>						
Southern stingray <i>Dasyatis americana</i>	1	Spiracles		Bocachica, Cartagena	2 Feb 1978	259654
Stingray <i>Dasyatis guttata</i> <sup>b</sup>	2	Spiracles	29.0	Bocachica, Cartagena	1 Feb 1978	259655
<b>Family Cymothoidae; <i>Cymothoa excisa</i> Perty</b>						
Lane snapper <i>Lutjanus synagris</i>	1♀	Mouth	30.0	Isla Bruja, Cartagena <sup>d</sup>	23 Nov 1977	259656
Yellowtail snapper <i>Ocyurus chrysurus</i>	1♀	Mouth	10.9	Bocachica, Cartagena	31 Jan 1978	259657

<sup>a</sup> New locality record: first time this parasite species has been recorded in the Caribbean.

<sup>b</sup> New host record for this parasite species.

<sup>c</sup> New locality record: first time this parasite species has been recorded in the Atlantic Ocean.

<sup>d</sup> New locality record: first time this parasite species has been recorded in Colombia.

(E.H.W. and L.B.) suggest that this isopod does not occur in the insular Caribbean, but is restricted to continental areas along the North, Central, and South American coasts.

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