

BENTHIC CEPHALOPODS OF THE EASTERN PACIFIC

MOLLUSCA

CEPHALOPODA

SEPIOIDEA

Family Sepiolidae

Rossia pacifica Berry 1911

OCTOPODA

CIRRATA

Family Opisthoteuthidae

Opisthoteuthis californiana Berry 1949

Opisthoteuthis sp. nov. A

Opisthoteuthis sp. nov. B

INCIRRATA

Family Octopodidae

Benthoctopus hokkaidensis Berry 1921

Benthoctopus sp.

Graneledone sp.

Octopus bimaculatus (Verrill, 1883)

Octopus bimaculoides Pickford and McConnaughey 1949

Octopus californicus (Berry 1911)

Octopus dofleini (Wulker 1910)

Octopus leioderma (Berry 1911)

Octopus micropyrsus Berry 1953

Octopus penicillifer Berry 1954

Octopus pricei Berry 1913

Octopus rubescens Berry 1953

Octopus veligero Berry 1953

Octopus sp. nov. A

Octopus sp. nov. B

NAMES TO AVOID

Octopus apollyon

Octopus hongkongensis

Octopus pacificus

Octopus punctatus

PRELIMINARY KEY TO THE BENTHIC CEPHALOPODS OF THE EASTERN PACIFIC

by

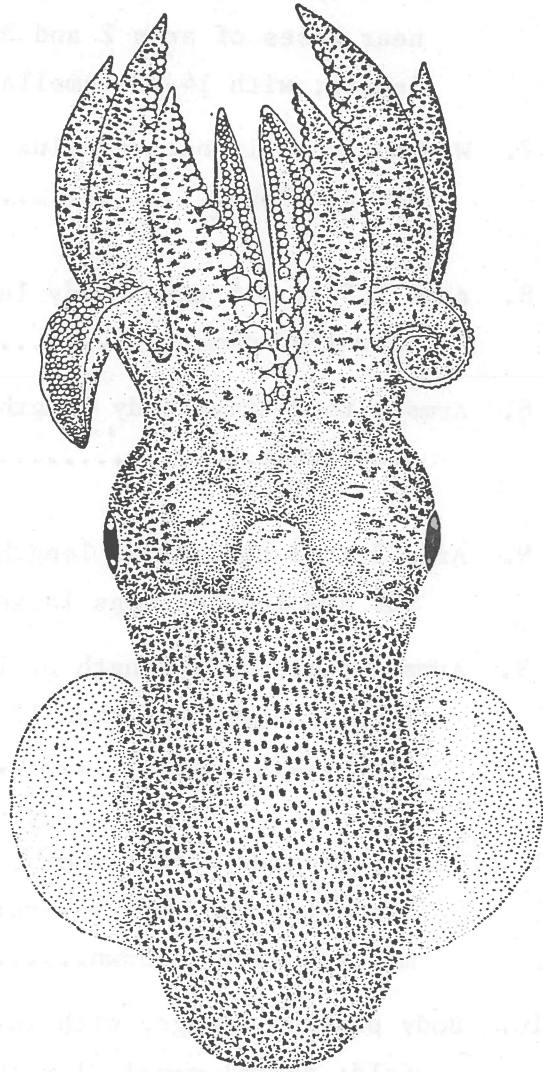
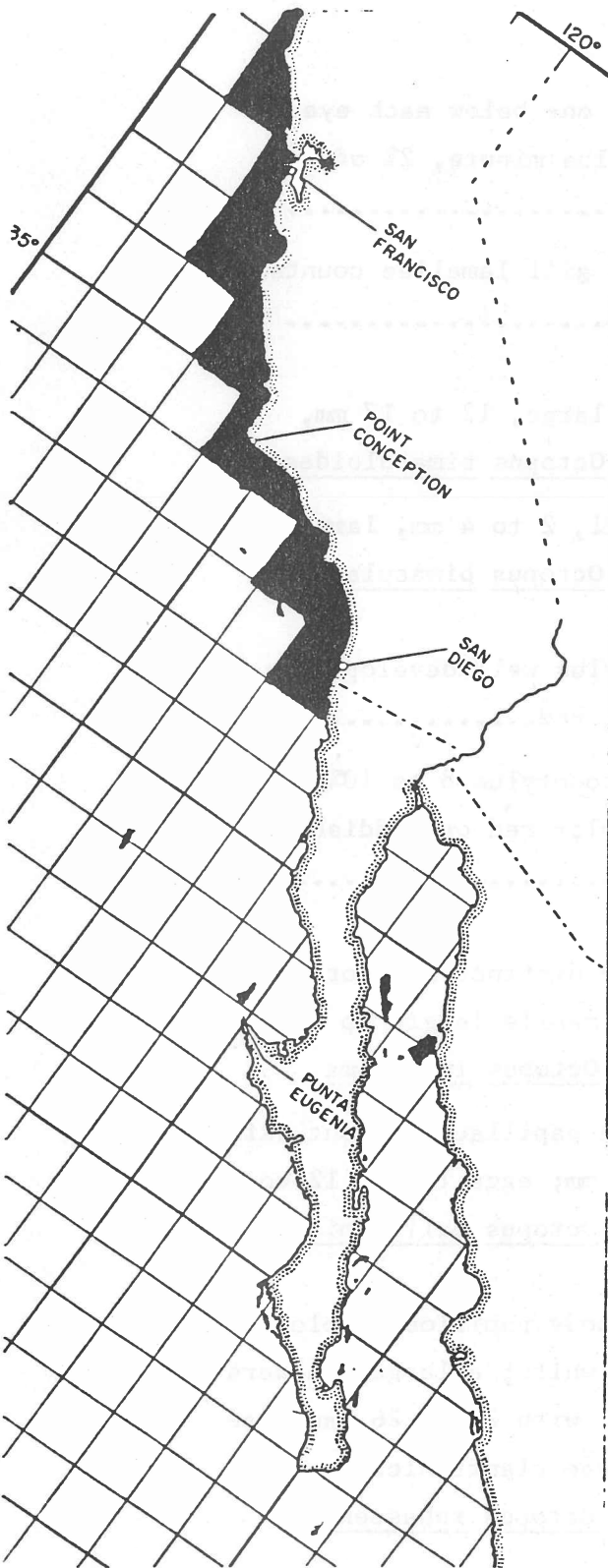
F. G. Hochberg, Jr.

Santa Barbara Museum of Natural History

1. With 8 arms; arms with sessile suckers; body ovoid or globose; with or without fins; without an internal shell..... 2
1. With 8 arms plus 2 tentacles; arms with stalked suckers; tentacles retractile into special pits; body rounded; with large semi-circular fins; with an internal shell..... Rossia pacifica
2. Single row of suckers down each arm; deep water octopods.... 3
2. Double row of suckers down each arm; deep or shallow forms.. 5
3. With fins; arms with small muscular papillae (cirri)..... 4
3. Without fins; arms without cirri..... Graneledone sp.
4. Dorsal mantle length greater than 200 mm; with 6 lamellae per gill..... Opisthoteuthis californiana
4. Dorsal mantle length less than 50 mm; with 6 lamellae per gill..... Opisthoteuthis sp. nov. A
5. With ink sack; eggs smaller than 15 mm; mantle aperture wide..... 6
5. Without ink sack; eggs larger than 20mm; mantle aperture narrow..... Benthoctopus sp.
6. Dorsal mantle length less than 200 mm; body papillose or smooth; with 24 or fewer lamellae per gill..... 7
6. Dorsal mantle length exceeding 200 mm; body with extensive skin folds; arms 3 to 5 times body length; with 24-29 lamellae per gill; hectocotylus large, 20% arm length; eggs 6 to 8 mm, larvae planktonic..... Octopus dofleini

7. With conspicuous ocelli (eye-like spots) one below each eye near bases of arms 2 and 3; hectocotylus minute, 2% of arm length; with 14-20 lamellae per gill..... 8
7. Without ocelli; hectocotylus not minute; gill lamellae counts not as above..... 9
8. Arms 2.5 to 3.5 times body length; eggs large, 12 to 17 mm, juveniles demersal..... Octopus bimaculoides
8. Arms 4 to 5 times body length; eggs small, 2 to 4 mm, larvae planktonic..... Octopus bimaculatus
9. Arms 2 to 3 times body length; hectocotylus well developed, 20% arm length; eggs large; color not red..... 10
9. Arms 3 times body length or longer; hectocotylus 8 to 10% arm length; eggs less than 12 mm; body color red or reddish brown..... 11
10. Body pale grey buff, smooth, with single distinct fold or keel bordering the body laterally; dorsal mantle length up to 50 mm; egg size unknown..... Octopus leioderma
10. Body pinkish orange, with large stellate papillae, without skin fold; dorsal mantle length up to 120 mm; eggs large, 12 to 15 mm, juveniles demersal..... Octopus californicus
11. Dorsal mantle length from 50 to 80 mm; body papillose, color dull red to red brown, often mottled with white; enlarged suckers on all but ventral arms of male only; with 22 to 26 lamellae per gill; eggs small, 3 to 4 mm, larvae planktonic.....
..... Octopus rubescens
11. Dorsal mantle length less than 25 mm; body smooth, bright red in color; enlarged suckers on all but ventral arms of both sexes; with 10 to 12 lamellae per gill; eggs 10 to 12 mm, juveniles demersal..... Octopus micropyrsus

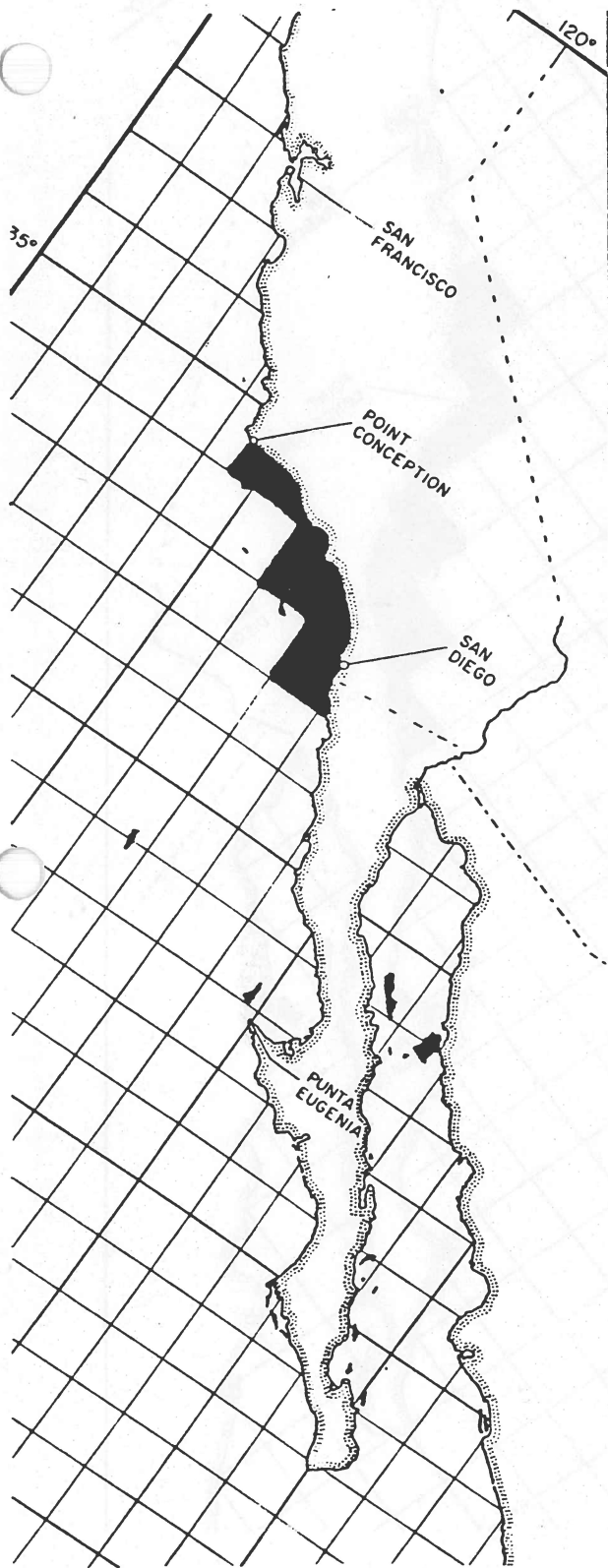
ROSSIA PACIFICA



Dicyemenea brevicephaloides

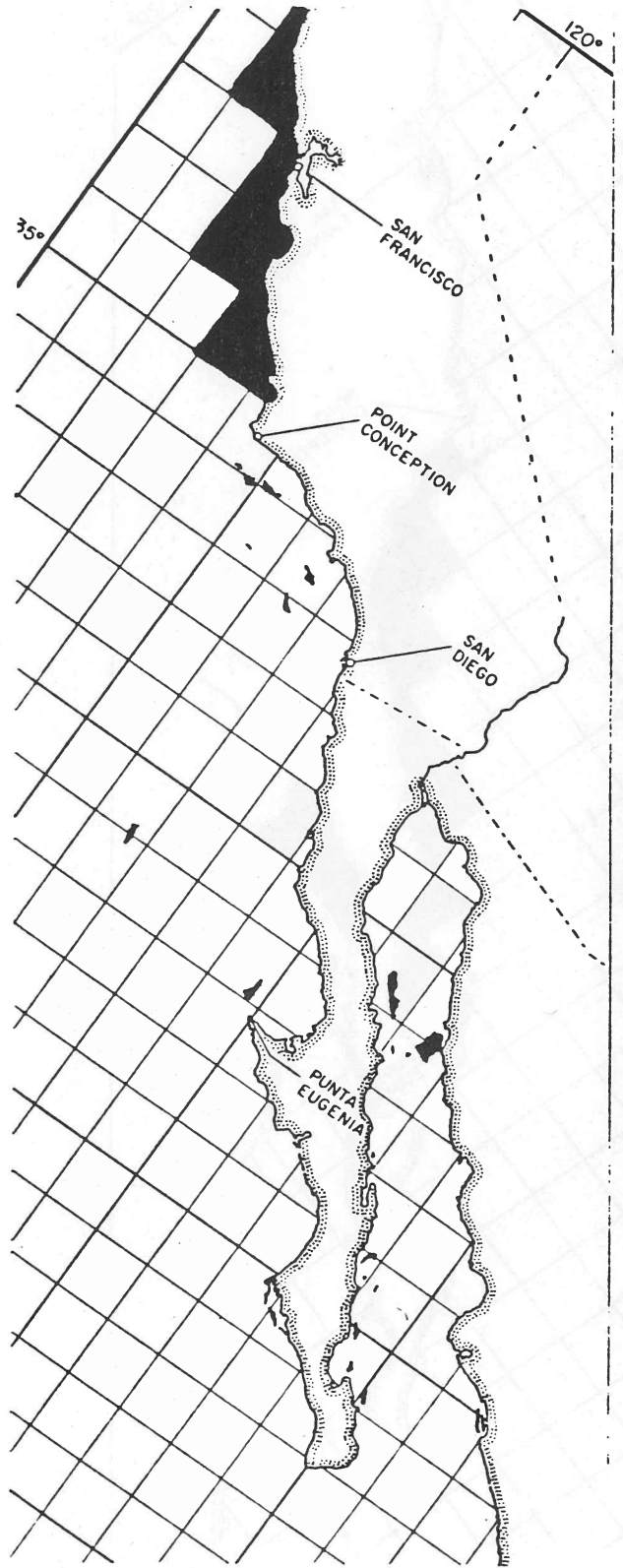
Dicyemenea filiformis (= D. parva)

OPISTHOTEUTHIS SP. A



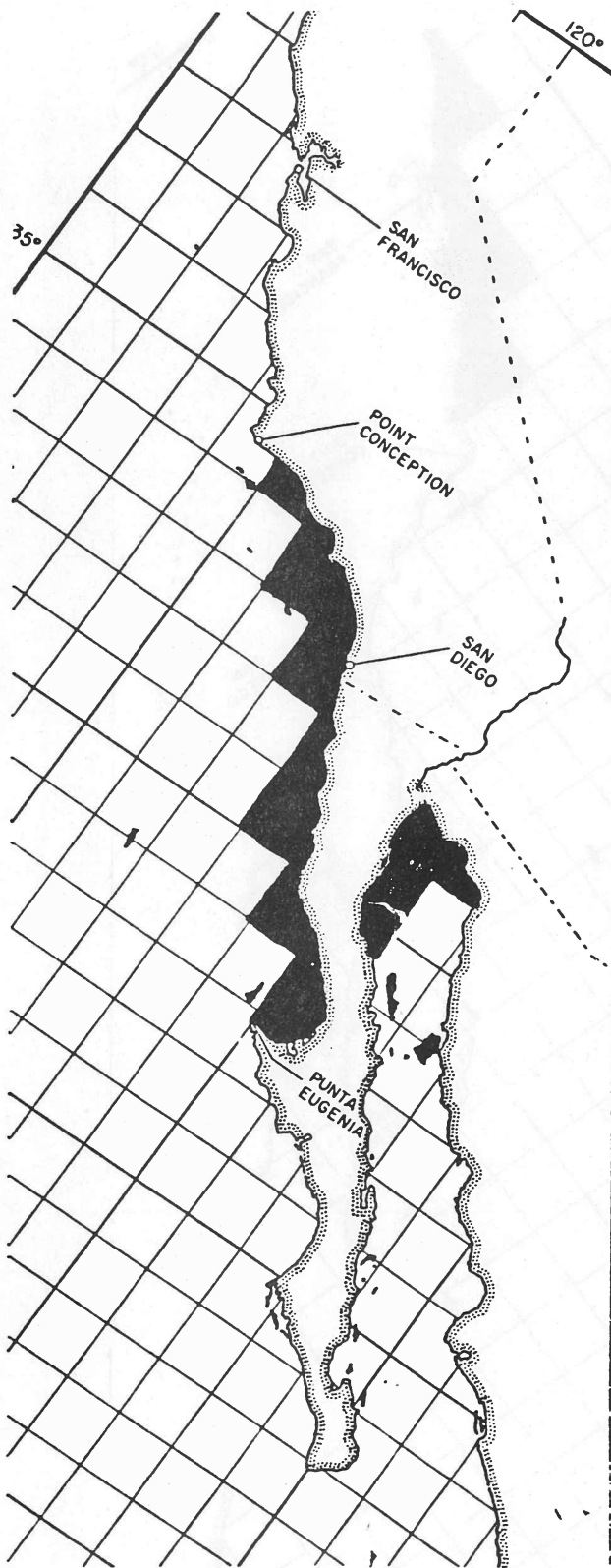
Dicyemids unknown

OPISTHOTEUTHIS CALIFORNIANA

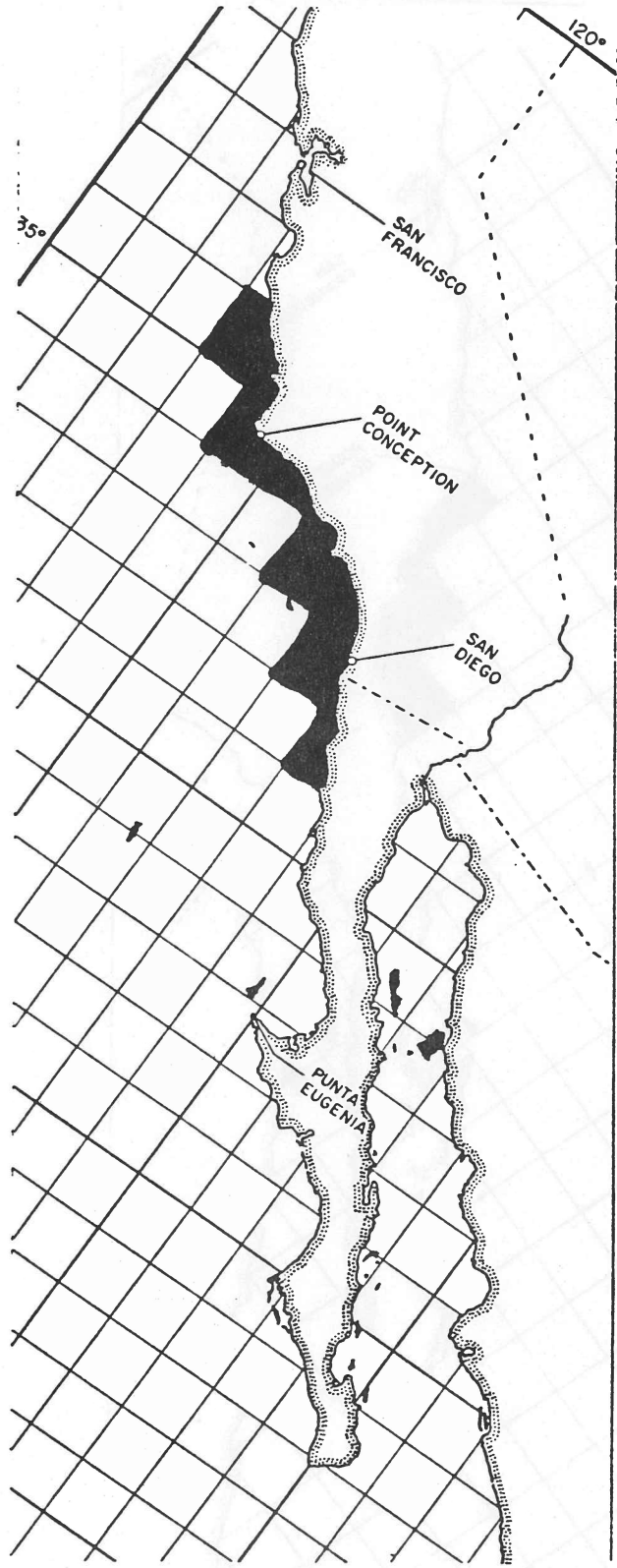


Dicyemids unknown

OCTOPUS BIMACULATUS



OCTOPUS BIMACULOIDES



Dicyemenea abelis

Dicyemenea abasi

Dicyemenea abbreviata

Dicyemenea granularis

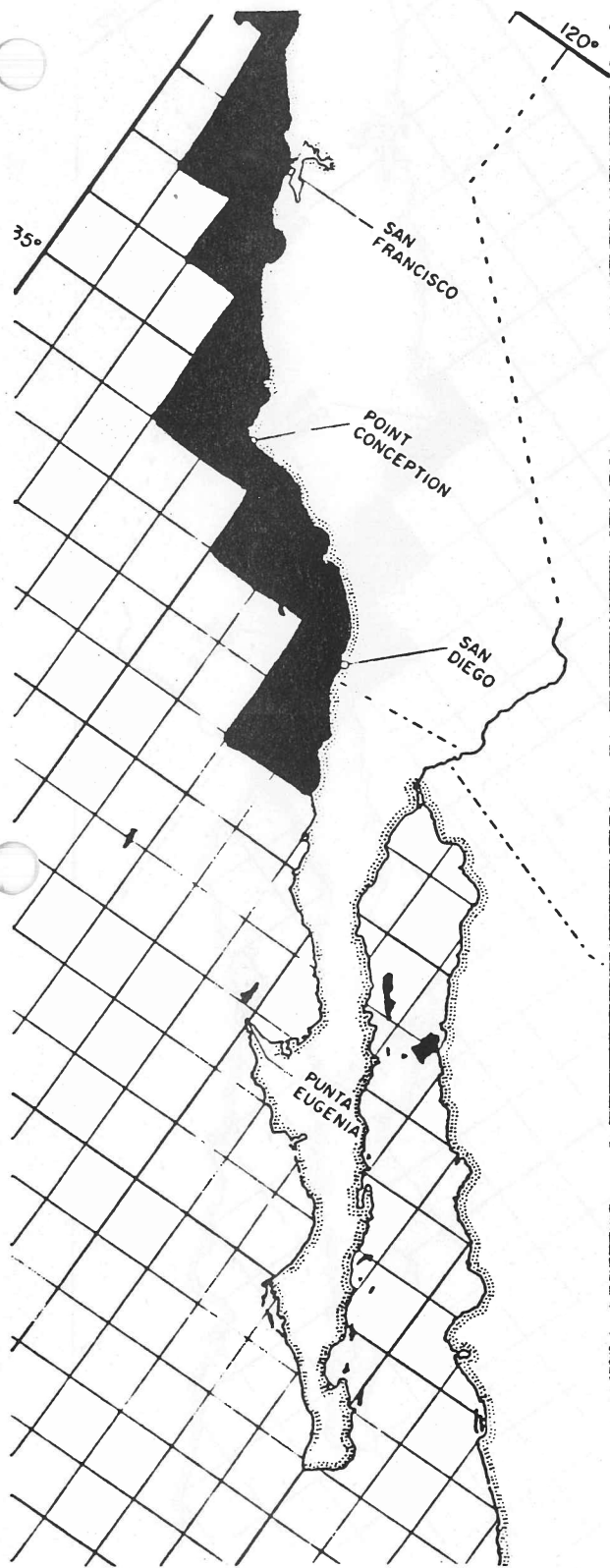
Dicyema acciaccatum

Dicyema acheroni

Dicyemenea californica

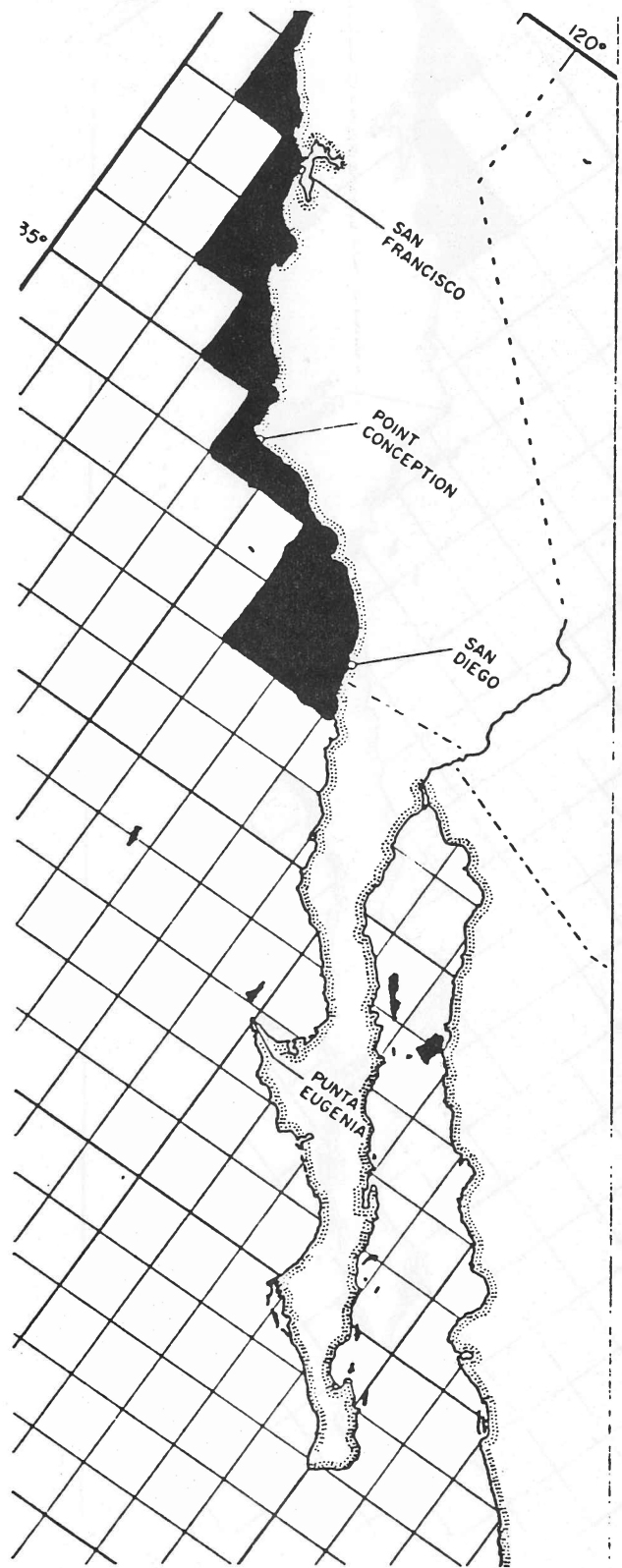
Dicyemenea sullivani

OCTOPUS CALIFORNICUS



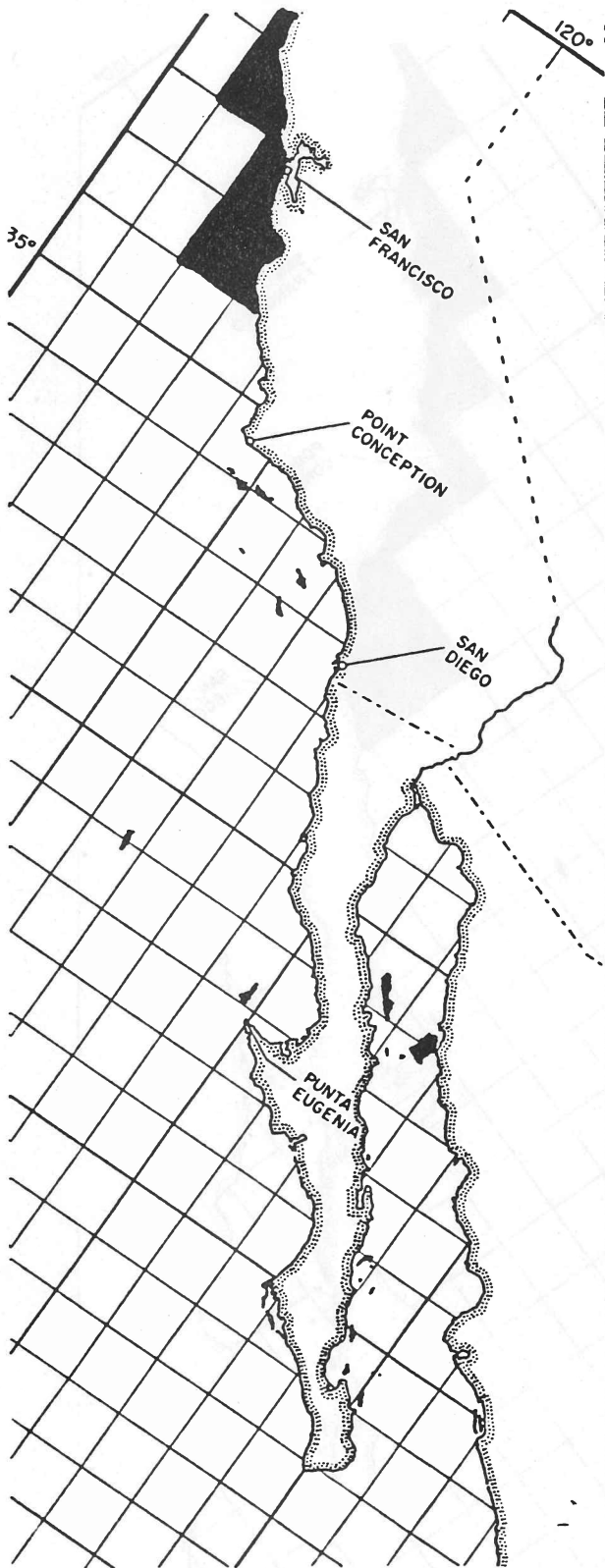
Two new species

OCTOPUS DOFLEINI



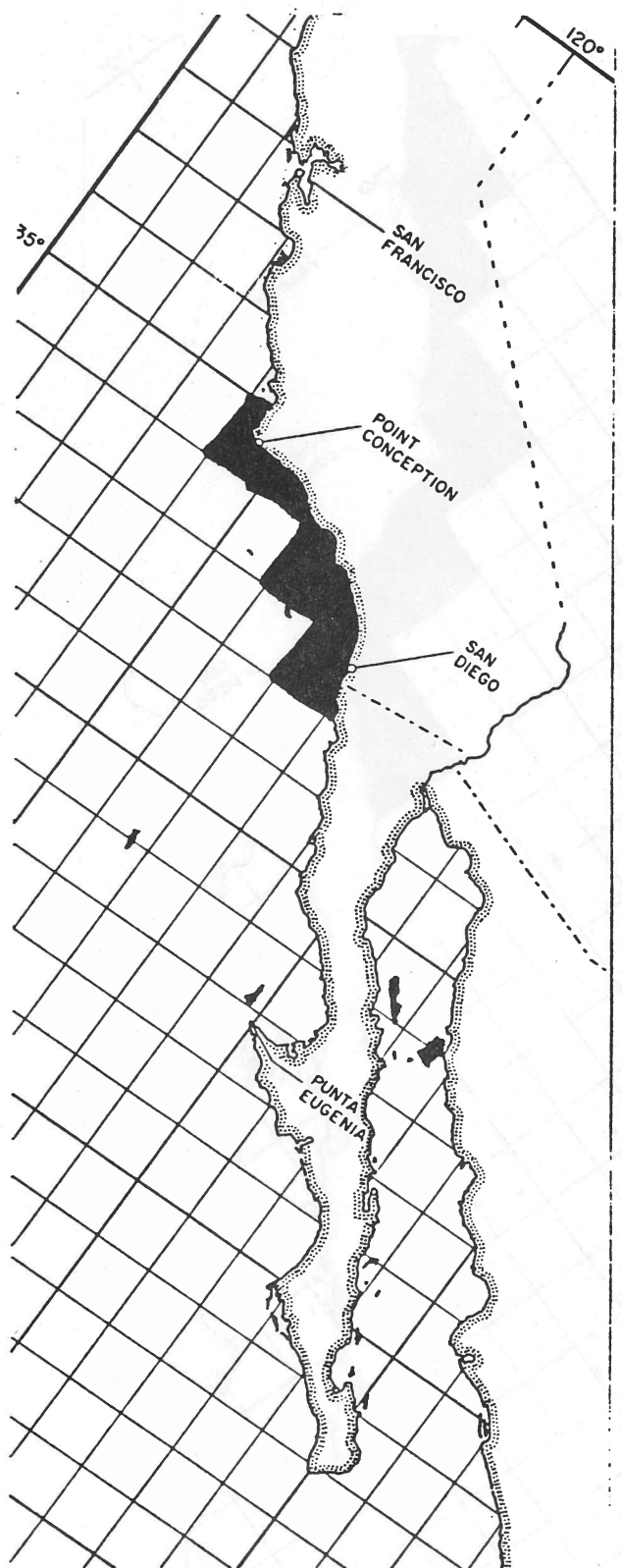
Conocyema deca
Dicyemenea abreida

OCTOPUS LEIODERMA



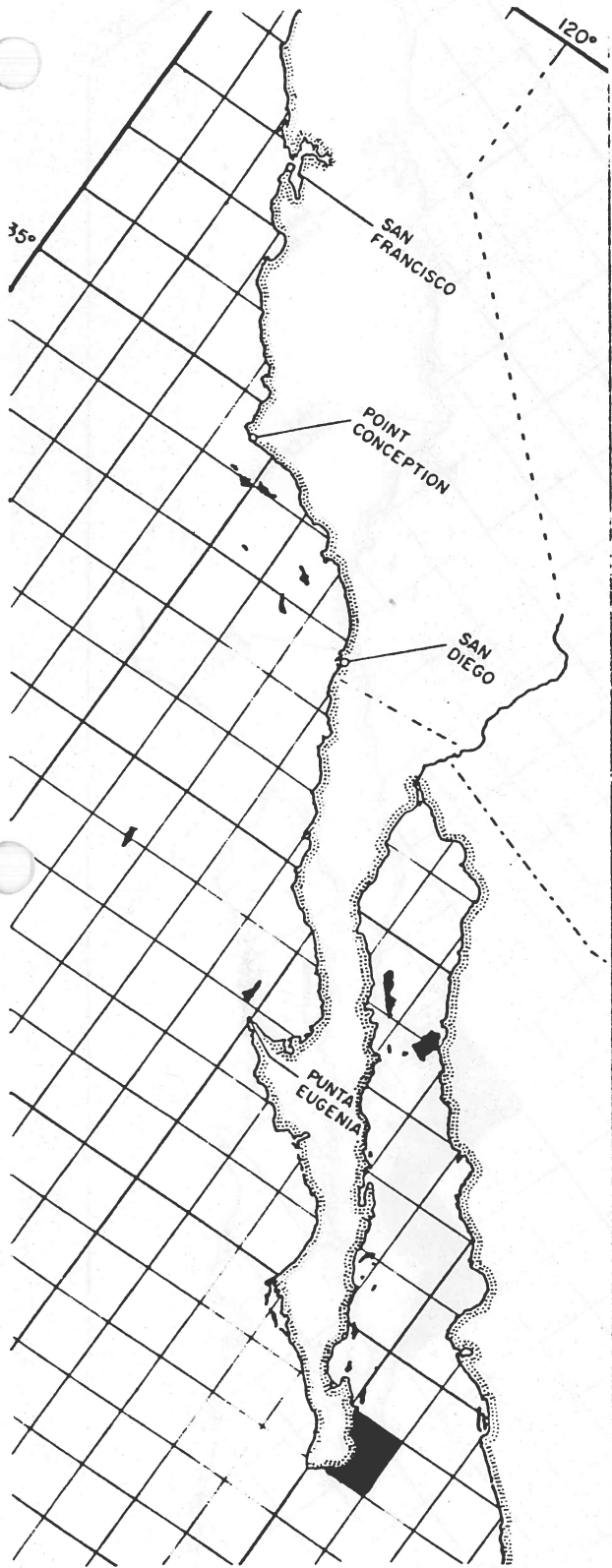
Two new species

OCTOPUS MICROPYRSUS



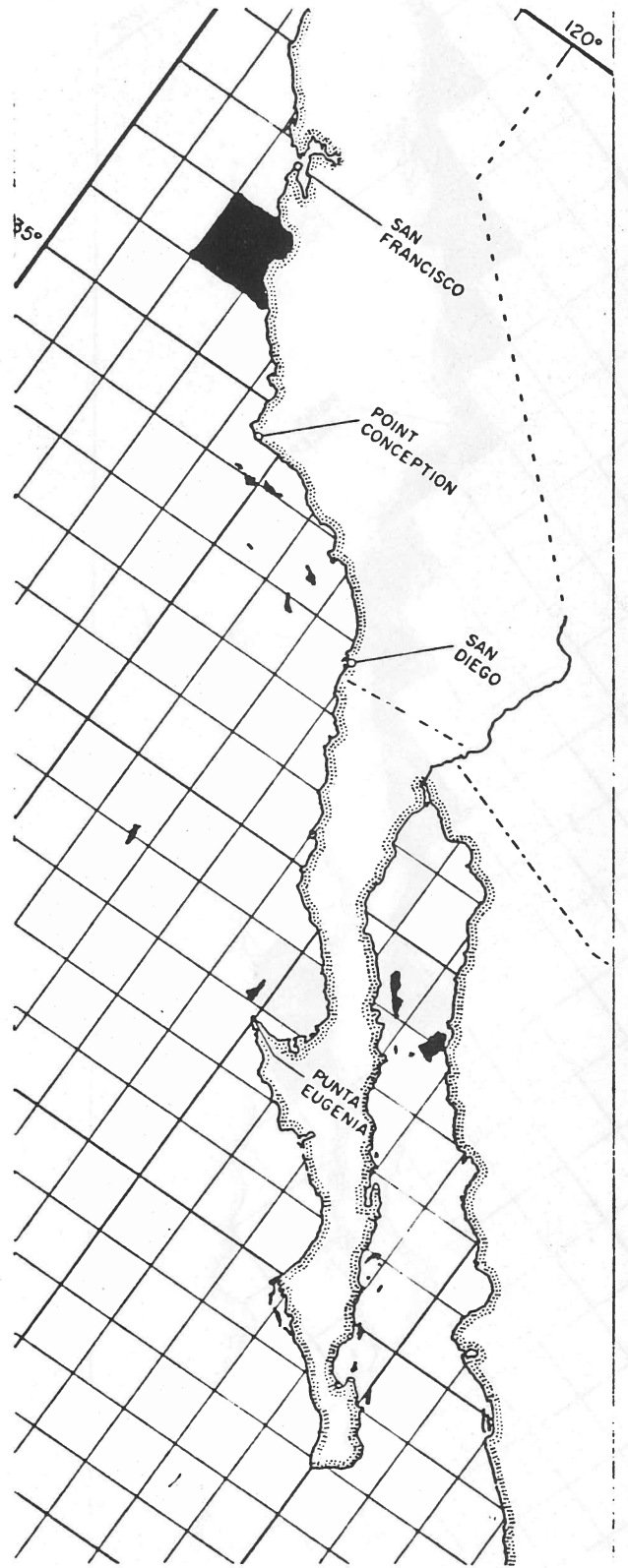
Dicyemenea sp. nov.

OCTOPUS PENICILLIFER



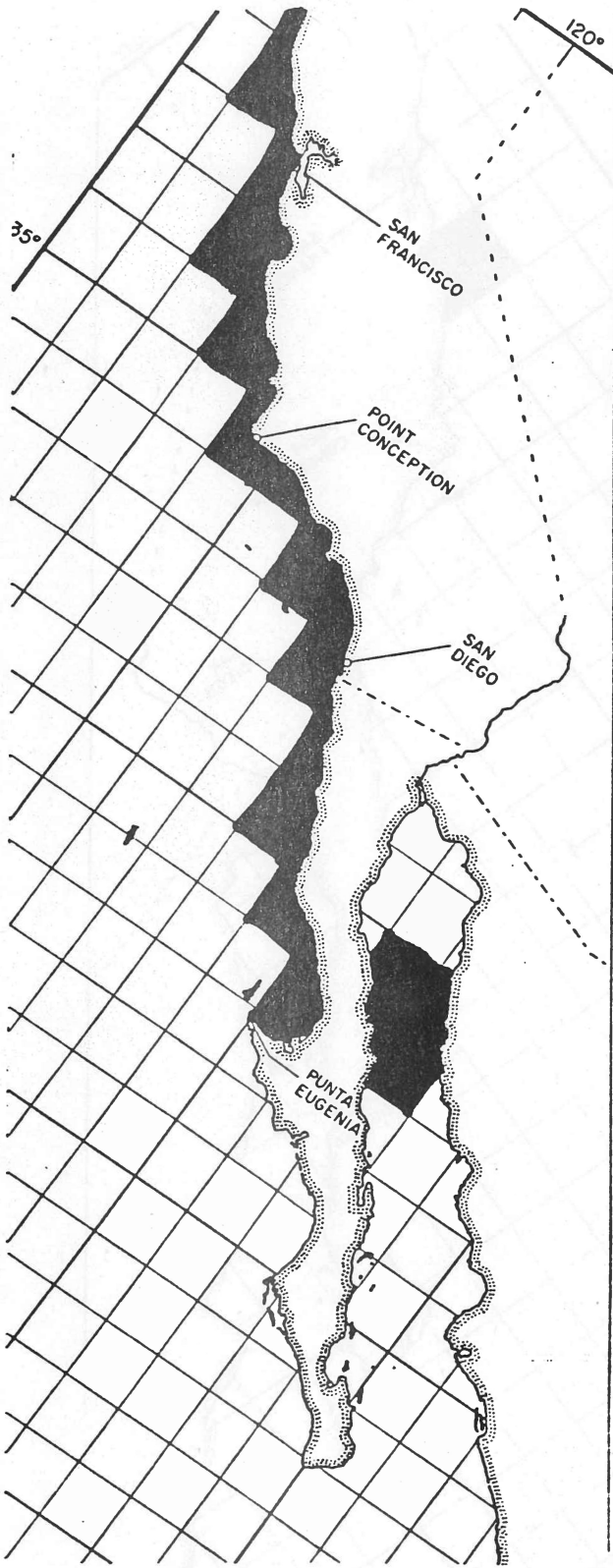
Dicyemids unknown

OCTOPUS PRICEI



Dicyemids unknown

OCTOPUS RUBESCENS



Conocyema adminicula

Dicyemenea adscita

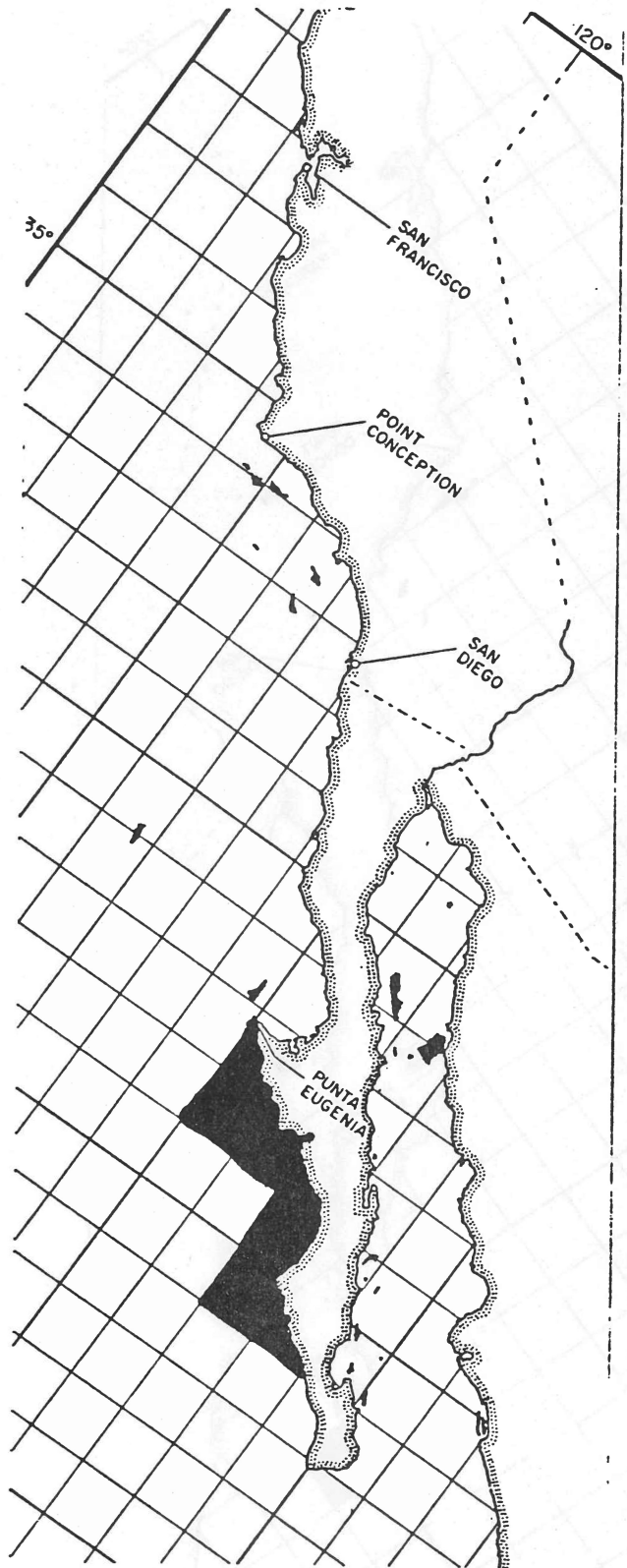
Dicyema balamuthi

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Dicyemenea brevicephala

Dicyema apollyoni

OCTOPUS VELIGERO



Dicyema sp. nov.

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