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AN ANNOTATED LIST OF CEPHALOPOD LARVAE COLLECTED OFF THE MEDITERRANEAN COAST OF SPAIN, 1976-1981

P. SANCHEZ and B. MOLI

Instituto de Investigaciones Pesqueras,
Paseo Nacional, s/n.08003 Barcelona, España

CEPHALOPODA
LARVAE
WESTERN MEDITERRANEAN
SPANISH COAST

ABSTRACT. — The identified cephalopod larvae come from biological samples collected during four surveys with a 40 cm diameter Bongo device fitted with 333 µm and 505 µm mesh size nets : Mediterraneo I (October 1976), Mediterraneo II (March 1977), Tanit (August 1979) and Maira I (December 1981). The area covered included the Mediterranean coast of Spain between Cabo Creus in the north and Cabo Palos in the south, and between Spain's mainland and the Balearic Islands. The following cephalopod taxa were identified : *Rossia macrosoma*, *Abraliopsis morisii*, *Thelidoteuthis alessandrinii*, *Onychoteuthis banksi*, *Ancistroteuthis lichtensteini*, *Histioteuthis reversa*, *Ctenopteryx sicula*, *Illex coindetii*, Rynchoteuthion larvae, *Galiteuthis* sp., *Octopus vulgaris*, *Octopus* sp., *Eledone cirrhosa*, *Macrotritopus* larvae, *Argonauta argo*, and some unidentified representatives of the families Sepiolidae, Loliginidae, Cranchiidae and Octopodidae.

CEPHALOPODA
LARVES
MÉDITERRANÉE OCCIDENTALE
CÔTE ESPAGNOLE

RÉSUMÉ. — Les larves de Céphalopodes identifiées ont été récoltées pendant quatre campagnes à l'aide de filets Bongo (mailles de 333 à 505 µm) : Mediterraneo I (Octobre, 1976), Mediterraneo II (Mars, 1977), Tanit (août, 1979) et Maira I (Décembre, 1981). L'aire d'étude est située entre le Cap Creus au nord et le Cap Palos au sud, et entre la côte espagnole et les îles Baléares. Les espèces suivantes ont été trouvées : *Rossia macrosoma*, *Abraliopsis morisii*, *Thelidoteuthis alessandrinii*, *Onychoteuthis banksi*, *Ancistroteuthis lichtensteini*, *Histioteuthis reversa*, *Ctenopteryx sicula*, *Illex coindetii*, Rynchoteuthion larvae, *Galiteuthis* sp., *Octopus vulgaris*, *Octopus* sp., *Eledone cirrhosa*, *Macrotritopus* larvae, *Argonauta argo*, et quelques représentants non identifiés des familles Sepiolidae, Loliginidae, Cranchiidae et Octopodidae.

We report here on identification and distribution of larval cephalopods collected during four survey cruises (1976-1981) conducted by the Instituto de Investigaciones Pesqueras de Barcelona.

The first, "Mediterraneo I" on the B/O *Cornide de Saavedra*, was carried out in October 1976. The position of the 44 stations are shown in Fig. 1. We took 80 plankton tows; of these, 33 contained cephalopods.

The second cruise "Mediterraneo II", was made on the same vessel in March 1977. The station positions and station numbers are the same as "Mediterraneo I" except the southern and the offshore stations. We studied 28 stations, and 11 tows contained cephalopods.

"Tanit" in August 1979 on board the B/O *Garcia del Cid* covered part of this area. The last cruise was "Maira I" (December 1981) on board the B/O

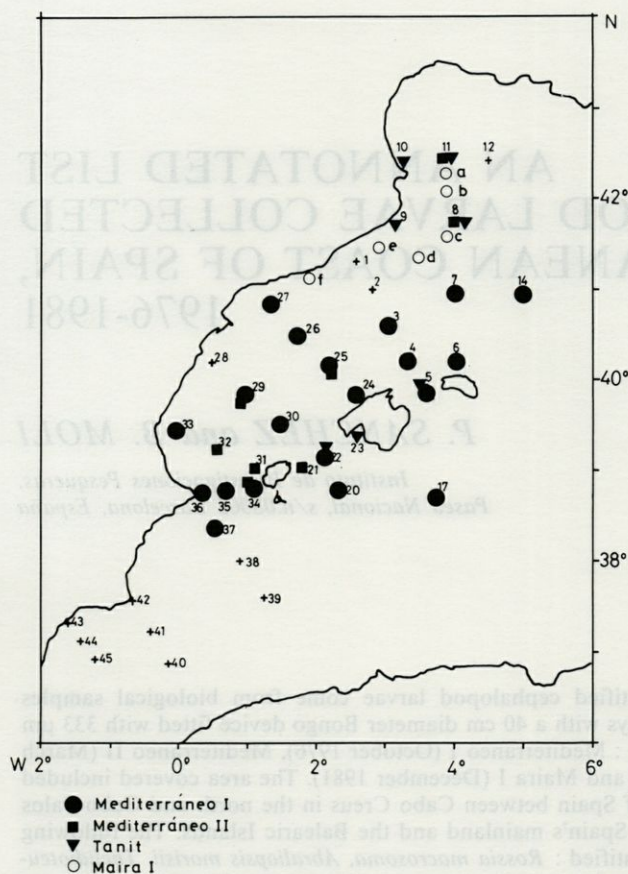


Fig. 1. — Distribution of stations and location of those at which cephalopods were captured (symbols other than crosses) in the four surveys.

Garcia del Cid; the study area (fig. 1) was smaller than for the previous cruises, it covered only the Catalanian coast. We caught cephalopods at 6 of the 20 stations visited.

Sampling procedures were identical, on all four cruises. Oblique tows were taken with a 40 cm diameter Bongo device fitted with 333 μ m and 505 μ m mesh size nets.

Rossia macrosoma (Delle Chiaje, 1829)

Mediterraneo II. — Station 29. One specimen of 2.05 mm ML was caught at night at 500-0 m.

Maira I. — Station a,e. Two specimens of 1.2 and 1.7 mm ML were caught at night at 500-0 m.

Maira I. — Station c. One specimen of 1.4 mm ML was caught during three day-time at 500-0 m.

Sepiolidae larvae

Mediterraneo I. — Stations 4, 24, 25. Three specimens ranging from 1.3 to 5.1 mm ML were caught at night at 200-0 m.

Mediterraneo II. — Stations 29, 32. Two specimens of 1.1 and 1.9 mm ML were caught at night at 500-0 m.

Abraliopsis morisii (Verany, 1837)

Mediterraneo I. — Station 25. One specimen of 3.8 mm ML was caught during the day-time at 200-0 m.

Thelidoteuthis alessandrini (Verany, 1851)

Maira I. — Station f. One specimen of 2.3 mm ML was caught during the day-time at 100-0 m.

Onychoteuthis banksi (Leach, 1817)

Mediterraneo I. — Stations 3, 7, 14, 25. Nine specimens ranging from 3.2 to 8.9 mm ML were caught during the day-time at 200-0 m.

Tanit. — Stations 8, 11. Two specimens both of 3.1 mm were caught during the day-time at 300-0 m.

Tanit. — Station 22. Two specimens of 2.6 and 3.5 mm were caught at night at 300-0 m.

Ancistroteuthis lichtensteini (d'Orbigny, 1839)

Mediterraneo I. — Station 26. One specimen of 19 mm ML was caught at night at 200-0 m.

Histioteuthis reversa (Verrill, 1880)

Mediterraneo I. — Stations 7, 14. Three specimens ranging from 2.7 to 3.6 mm ML were caught during the day-time at 200-0 m.

Mediterraneo I. — Station 17. One specimen of 2.7 mm ML was caught at night at 200-0 m.

Mediterraneo II. — Station 8. One specimen of 2.1 mm ML was caught at night at 200-0 m.

Mediterraneo II. — Stations 21, 31. Two specimens of 4.5 and 8.0 mm ML were caught during the day at 200-0 m.

Mediterraneo II. — Station 34. One specimen of 3.5 mm ML was caught at night at 100-0 m.

Maira I. — Station b. Three specimens ranging from 2.2 to 2.8 mm ML were caught at night at 500-0 m.

Maira I. — Station d. One specimen of 2.5 mm ML was caught during the day-time at 500-0 m.

Ctenopteryx sicula (Verany, 1851)

Mediterraneo I. — Station 14. One specimen of 3.1 mm ML was caught during the day-time at 200-0 m.

Mediterraneo I. — Station 17. One specimen of 3.1 mm ML was caught at night at 200-0 m.

Illex coindetii (Verany, 1837)

Mediterraneo I. — Station 30. One specimen of 2.6 mm ML was caught during the day-time, at 200-0 m.

Mediterraneo II. — Station 31. Two specimens of 3.6 and 4.2 mm ML were caught during the day-time at 200-0 m.

Mediterraneo II. — Station 32. One specimen of 4.6 mm ML was caught at night at 500-0 m.

Rhynchoteuthion larvae

Mediterraneo I. — Stations 4, 6, 20, 22, 24, 35. Eleven specimens ranging from 1.5 to 3.5 mm ML were caught at night at 200-0 m.

Mediterraneo I. — Stations 5, 34. Four specimens ranging from 1.2 to 1.7 mm ML were caught during the day-time at 80-0 m.

Mediterraneo I. — Stations 25, 37. Three specimens ranging from 1.4 to 4.8 mm ML were caught during the day-time at 200-0 m.

Mediterraneo II. — Station 31. One specimen of 5.6 mm ML was caught during the day-time, at 200-0 m.

Mediterraneo II. — Station 32. One specimen of 3.1 mm ML was caught at night at 500-0 m.

Tanit. — Station 10. One specimen of 1.5 mm ML was caught during the day-time at 75-0 m.

Tanit. — Station 23. One specimen of 1.9 mm ML was caught at night at 50-0 m.

Galiteuthis sp.

Mediterraneo II. — Station 11. One specimen of 5.1 mm ML was caught at night at 500-0 m.

Cranchiidae larvae

Mediterraneo I. — Stations 25, 37. Three specimens ranging from 3.8 to 5.2 mm ML were caught during the day-time at 200-0 m.

Loliginidae larvae

Mediterraneo I. — Station 3. One specimen of 2.3 mm ML was caught during the day-time at 200-0 m.

Mediterraneo I. — Stations 26, 29. Two specimens of 1.9 and 2.4 mm ML were caught at night at 200-0 m.

Octopus vulgaris (Cuvier, 1797)

Mediterraneo I. — Station 5. One specimen of 4.5 mm ML was caught during the day-time at 80-0 m.

Mediterraneo I. — Station 36. One specimen of 3.1 mm ML was caught at night at 50-0 m.

Octopus sp.

Mediterraneo I. — Stations 4, 20. Three specimens ranging from 3.6 to 5.2 mm ML were caught at night at 200-0 m.

Mediterraneo I. — Station 37. One specimen of 2.6 mm ML was caught during the day-time at 200-0 m.

Octopodidae larvae

Mediterraneo I. — Station 22. One specimen of 1.02 mm ML was caught at night at 200-0 m.

Mediterraneo I. — Station 24. One specimen of 3.6 mm ML, possibly *Eledone cirrhosa* (Lamarck, 1798), was caught at night at 200-0 m.

Mediterraneo II. — Station 25. One specimen of 2.5 mm ML was caught at night at 500-0 m.

Mediterraneo I. — Station 27. One specimen of 2.5 mm ML was caught during the day-time at 200-0 m.

Mediterraneo I. — Station 33. One specimen of 2.06 mm ML was caught at night at 100-0 m.

Tanit. — Station 5. One specimen of 1.6 mm ML was caught at night at 75-0 m.

Tanit. — Station 9, 10. Three specimens ranging from 1.7 to 2.1 mm ML were caught during the day-time at 75-0 m.

Macrotritopus larvae

Mediterraneo I. — Station 22. Two specimens of 2.9 and 3.3 mm ML were caught at night at 200-0 m.

Argonauta argo (Linné, 1758)

Mediterraneo I. — Stations 3, 14. Two specimens of 1.2 and 2.9 mm ML were caught during the day-time at 200-0 m.

Mediterraneo I. — Station 17. One specimen of 1.2 mm ML was caught at night at 200-0 m.

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