

ANOMURAN LARVAE (DECAPODA, CRUSTACEA) IN PLANKTON COLLECTIONS  
FROM CRUISES IN THE GULF OF IZMIR, AEGEAN COAST OF TURKEY

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### Résumé

Pendant les recherches sur les larves des Crustacés Décapodes, du Baie d'Izmir, nous avons trouvé 17 espèces d'Anomoures.

### Summary

17 species of Anomuran larvae were found in Izmir Bay during the research on Decapod Crustacean larvae.

### Introduction

No research has been done on Decapod Crustacean larvae of Aegean Sea, although there are some works on adults (KOLTHUIS, I.B. 1961; GELDİAY, R. and YOCATAŞ, A. 1970; etc.).

### Method

Horizontal plankton hauls were made from March 1976 to March 1978 at different stations in the Gulf of Izmir.

### Results

During the research period, 17 species of the larvae of Anomura were found. Four of them belong to Diogenidae, seven of them to Paguridae, three of them to Galatheidae, the last three of them belong to Porcellanidae.

The maximum abundance of larvae were found in late spring, especially in May - June. Also, in this period abundance was maximum qualitatively (14 species). The minimum abundance of larvae were found during winter months, especially in January.

The abundance of these species in the Gulf of Izmir is as follows :

a- *Anapagurus chirocanthus*, *Diogenes pugilator*, *Galathea squaminifera*, *G.intermedia*, *A.bicorniger*, *Pagurus anachoeratus* , *Pisidia bluteli* very abundant.

b- *P.cuanensis*, *Catapaguroides timidus*, *G.dispersa*, *Clibanarius erythropus*, *P.alatus*, *Pisidia longimana* abundant.

c- *Paguristes oculatus*, *Calcinus ornatus*, *A.laervis*, *Porcellana platycheles* rare.

### Conclusion

The larvae of Anomura were found throughout the year just as in the Gulf of Marseille, Algeria Bay and Adriatic Sea. The number of these species is same with those found in the first two regions but greater than those in the last one. The same seasonal variations which were observed by KURIAN (1956) in Adriatic Sea, BOURDILLON-CASANOVA (1960) in the Gulf of Marseille and SERIDJI (1968) in Algeria Bay have also been found in the Gulf of Izmir.

### References

- BOURDILLON-CASANOVA, L. (1960): Le Meroplancton du Golfe de Merseille: Les larves de Crustacés Décapodes. Rec.Trav.Sta.Mar.Endoume Fasc. 30, Bull. 18, 286 p.
- GELDİAY, R. and KOCATAŞ, A. (1970) : A report on the Anomura Collected from the Aegean Coast of Turkey (Crustacea, Decapoda). Sci. Rep.Fac.Sci., Ege Univ.No.98, 35 p.
- KURIAN, C.V. (1956): Larvae of Decapod Crustacea from the Adriatic Sea. Acta Adriatica, 6 (3) : 1-108.
- SERIDJI, R. (1968) : Note préliminaire sur la répartition saisonnière des larves de Crustacés Décapodes en Baie d'Alger. Pelagos-Bull. Inst.Océanogr.Algér. No.10; 91-108.