

## Check-list of the recent non-marine Ostracoda (Crustacea) of Belgium\*

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### Abstract

A check-list of the non-marine Ostracoda of Belgium is here presented for the first time. Thus far, 76 species, belonging to 35 genera, have been found in Belgium. The present list is based on data from the literature, on old collections (before 1950) and on more recently collected material (after 1950, mainly between 1976 and 1988).

Faunistic data are now available from 154 U.T.M. squares (on a total of 375). A review of the 38 papers dealing with Belgian Ostracoda is given.

**Key-words** : Ostracoda, non-marine, check-list, Belgium.

### Résumé

Une liste faunistique des ostracodes non-marins de la Belgique est présentée pour la première fois. Jusqu'à présent 76 espèces, qui appartiennent à 35 genres, ont été observées en Belgique. La liste a été établie en fonction de données bibliographiques, et de matériel présent dans d'anciennes collections (avant 1950) et dans des collections plus récentes (après 1950, surtout pour la période 1976-1988). Des données faunistiques sont disponibles pour 154 carrés U.T.M. (sur un total de 375). Un aperçu général des 38 publications sur les ostracodes belges est donné.

**Mots-clefs** : Ostracoda, eaux continentales, liste faunistique, Belgique.

### Samenvatting

Voor de eerste maal wordt een faunalijs voorgesteld van de Belgische niet-mariene Ostracoda. 76 soorten, behorende tot 35 genera werden tot nog toe in België waargenomen. De faunalijs is gebaseerd op gegevens uit de literatuur, op oude collecties (vóór 1950) en op verzamelingen van meer recente datum (na 1950, vooral van 1976 tot 1988). Van 154 U.T.M.-hokken (op een totaal van 375) zijn faunistische gegevens beschikbaar. Er wordt een overzicht gegeven van de 38 publikaties die handelen over Belgische Ostracoda.

**Trefwoorden** : Ostracoda, niet-mariene wateren, faunalijs, België.

### Bibliographical review

Thirty-eight papers on Belgian non-marine Ostracoda have this far been published, but only eleven are dealing exclusively with ostracods of the Belgian fauna. These are : KLIE (1936, 1937), ROME (1943, 1947, 1954), PIERRE (1973), WOUTERS, (1975), MARTENS (1982), WOUTERS (1983, 1984) and MARTENS & DUMONT (1984).

Four other publications on Ostracoda contain data on Belgian species : BRADY (1869), MEISCH (1984, 1985) and WOUTERS & BLESS (1986).

Lists of various animal groups, including ostracods were published by PLATEAU (1870), BRADY & ROBERTSON (1870), LAMEERE (1895), LERUTH (1939), VERRAES (1968), DUMONT & GYSELS (1971), HEIP (1971), GYSELS et al. (1976) and WOUTERS (1985).

During the forties and fifties DOM R.J. ROME identified non-marine Ostracoda of Belgium in the collections of the Koninklijk Belgisch Instituut voor Natuurwetenschappen. Some of his determinations were published in ecologically oriented papers by different authors : CONRAD (1942), LELOUP et al. (1954), LELOUP & KONIETZKO (1956), LEFEVERE et al. (1956), LELOUP (1957), LELOUP & VAN MEEL (1958), JACQUEMART & LELOUP (1958a), JACQUEMART & LELOUP (1958b), LELOUP & JACQUEMART (1963) and VAN MEEL (1982).

Finally, four papers on the biology and ecology of *Cyprideis torosa* from a brackish water pond in N.W. Belgium were published by HEIP (1976a, 1976b), HERMAN & HEIP (1982) and HERMAN et al. (1983). Although the number of publications is rather restricted, it has to be stressed that research on non-marine ostracods of Belgium is in fairly good health. This is largely due to the efforts of the late DOM D.J. ROME (1893-1974), who contributed a lot to our present knowledge, and to the renewed interest in non-marine ostracods during the last decade by different authors.

### Check-list

**Class OSTRACODA LATREILLE, 1806**  
**ORDER PODOCOPIDA SARS, 1866**  
**Suborder PODOCOPINA SARS, 1866**

Superfamily Cytheracea BAIRD, 1850  
Family Limnocytheridae KLIE, 1938  
Subfamily Limnocytherinae KLIE, 1938  
*Limnocythere inopinata* (BAIRD, 1843)

\* Contributions to the Study of Belgian Ostracoda, No 3.

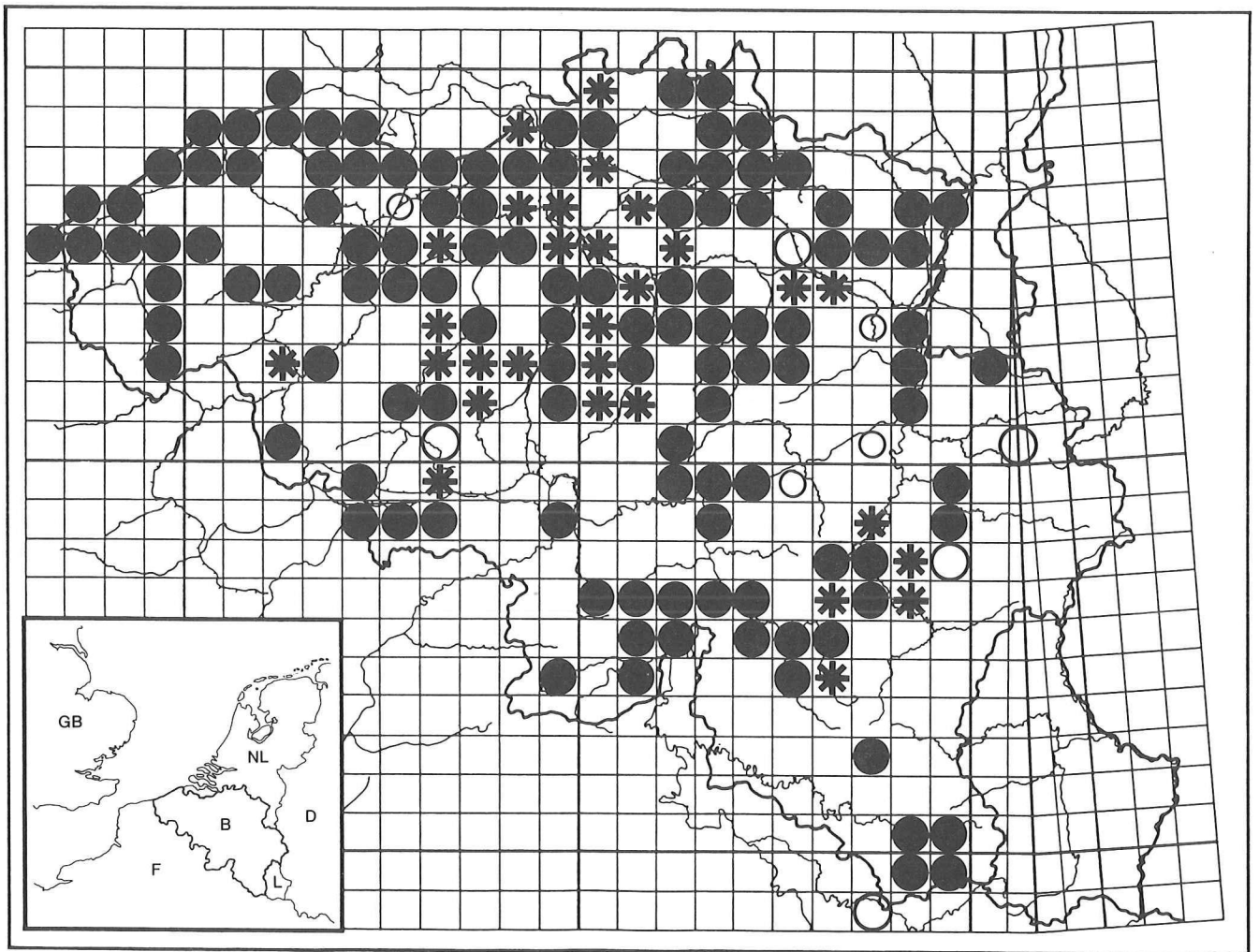


Fig. 1. Map of Belgium with U.T.M. grid (10 x 10 km squares), showing the coverage of records. Black circles : specimens collected after 1950; stars : specimens collected before 1950 ; large open circles : literature data after 1950 ; small open circles : literature data before 1950.

Subfamily Timiriaseviinae MANDELSTAM, 1960  
*Metacypris cordata* BRADY & ROBERTSON, 1870

Family Cytheridae BAIRD, 1850  
*Cytheromorpha fuscata* (BRADY, 1869)

Family Loxoconchidae SARS, 1925  
*Loxoconcha elliptica* BRADY, 1868

Family Cytheruridae G.W. MULLER, 1894  
*Cytherura gibba* (O.F. MULLER, 1785)

Family Cytherideidae SARS, 1925  
*Cyprideis torosa* (JONES, 1850)  
*Romeis rivulorum* (ROME, 1943)

Suborder METACOPINA SYLVESTER-BRADLEY, 1961

Superfamily Darwinulacea BRADY & NORMAN, 1889

Family Darwinulidae BRADY & NORMAN, 1889  
*Darwinula stevensoni* (BRADY & ROBERTSON, 1870)

Superfamily Cypridacea BAIRD, 1845

Family Ilyocyprididae KAUFMANN, 1900  
*Ilyocypris bradyi* SARS, 1890  
*Ilyocypris decipiens* MASI, 1906  
*Ilyocypris inermis* KAUFMANN, 1900  
*Ilyocypris gibba* (RAMDOHR, 1808)  
*Ilyocypris monstrifica* (NORMAN, 1862)

Family Candonidae KAUFMANN, 1900  
 Subfamily Candoninae KAUFMANN, 1900  
*Candona angulata* G.W. MÜLLER, 1900  
*Candona candida* (O.F. MÜLLER, 1776)  
*Candona neglecta* SARS, 1887  
*Candona weltneri* HARTWIG, 1898  
*Fabaeformiscandona caudata* (KAUFMANN, 1900)  
*Fabaeformiscandona fabaeformis* (FISCHER, 1854)  
*Fabaeformiscandona fragilis* (HARTWIG, 1898)  
*Fabaeformiscandona holzkampfi* (HARTWIG, 1900)  
*Fabaeformiscandona hyalina* (BRADY & ROBERTSON, 1870)  
*Fabaeformiscandona protzi* (HARTWIG, 1898)

*Pseudocandona albicans* (BRADY, 1864)  
*Pseudocandona belgica* (KLIE, 1937)  
*Pseudocandona compressa* (KOCK, 1837)  
*Pseudocandona crispata* (KLIE, 1926)  
*Pseudocandona hartwigi* (G.W. MÜLLER, 1900)  
*Pseudocandona lobipes* (HARTWIG, 1900)  
*Pseudocandona marchica* (HARTWIG, 1899)  
*Pseudocandona pratensis* (HARTWIG, 1901)  
*Pseudocandona triquetra* (KLIE, 1936)  
*Pseudocandona zschokkei* (WOLF, 1919)  
*Cryptocandona leruthi* (KLIE, 1936)  
*Cryptocandona vavrai* (KAUFMANN, 1900)  
*Candonopsis kingsleii* (BRADY & ROBERTSON, 1870)  
 Subfamily Cyclocypridinae KAUFMANN, 1900  
*Cyclocypris globosa* (SARS, 1863)  
*Cyclocypris laevis* (O.F. MÜLLER, 1785)  
*Cyclocypris ovum* (JURINE, 1820)  
*Cyclocypris serena* (KOCH, 1837)  
*Cyprina exsculpta* (FISCHER, 1855)  
*Cyprina ophthalmica* (JURINE, 1820)  
*Cyprina subsalsa* REDEKE, 1936  
*Physocyprina kraepelini* G.W. MÜLLER, 1903

Family Notodromadidae KAUFMANN, 1900  
*Notodromas monacha* (O.F. MÜLLER, 1776)

Family Cyprididae BAIRD, 1845  
 Subfamily Isocypridinae ROME, 1965  
*Isocypris beauchampi* (PARIS, 1919)  
 Subfamily Herpetocypridinae KAUFMANN, 1900  
*Herpetocypris brevicaudata* KAUFMANN, 1900  
*Herpetocypris chevreuxi* (SARS, 1896)  
*Herpetocypris reptans* (BAIRD, 1835)  
*Psychrodromus olivaceus* (BRADY & NORMAN, 1889)  
 Subfamily Cyprinotinae BRONSTEIN, 1947  
*Heterocypris incongruens* (RAMDOHR, 1808)  
*Heterocypris salina* (BRADY, 1868)  
 Subfamily Dolerocypridinae TRIEBEL, 1961  
*Dolerocypris fasciata* (O.F. MÜLLER, 1776)  
 Subfamily Eucypridinae BRONSTEIN, 1947  
*Eucypris elliptica* BAIRD, 1846  
*Eucypris pigra* (FISCHER, 1851)  
*Eucypris virens* (JURINE, 1820)  
*Prionocypris zenkeri* (CHYZER, 1858)  
*Tonnacypris lutaria* (KOCH, 1838)  
 Subfamily Cypridinae BAIRD, 1845  
*Cypris pubera* O.F. MÜLLER, 1776  
 Subfamily Cypricerinae MCKENZIE, 1971  
*Bradleystrandesia reticulata* (ZADDACH, 1844)  
*Bradleystrandesia fuscata* (JURINE, 1820)  
*Strandesia (Neocypris) obliqua* (BRADY, 1868)  
 Subfamily Scottinae BRONSTEIN, 1947  
*Scottia pseudobrowniana* KEMPF, 1971  
 Subfamily Cypridopsinae KAUFMANN, 1910  
*Cavernocypris subterranea* (WOLF, 1919)  
*Cypridopsis hartwigi* G.W. MÜLLER, 1900  
*Cypridopsis parva* G.W. MÜLLER, 1900

*Cypridopsis vidua* (O.F. MÜLLER, 1776)  
*Plesiocypridopsis newtoni* (BRADY & ROBERTSON, 1870)  
*Sarsocypridopsis aculeata* (COSTA, 1847)  
*Potamocypris arcuata* (SARS, 1903)  
*Potamocypris fulva* (BRADY, 1868)  
*Potamocypris similis* G.W. MÜLLER, 1912  
*Potamocypris smaragdina* (VAVRA, 1891)  
*Potamocypris unicaudata* SCHÄFER, 1943  
*Potamocypris villosa* (JURINE, 1820)  
*Potamocypris zschokkei* (KAUFMANN, 1900)

## Comments

1. The present check-list is based on data from literature, on old collections (i.e. before 1950) deposited in the Koninklijk Belgisch Instituut voor Natuurwetenschappen and on recently collected material (i.e. after 1950, mainly from the period 1976-1988), deposited in the same Institute. It is the first check-list of Belgian non-marine Ostracoda.

The Universal Transverse Mercator grid (U.T.M.) of the Belgian territory consists of 375 squares of 10 x 10 km each (with exception of the compensation zone in the eastern part of the country, where the squares are smaller).

Fig. 1 shows the coverage of records mapped using the 10 km grid squares, and using four symbols to distinguish the different types of records. Black circles : specimens collected after 1950 ; stars : specimens collected before 1950 ; large open circles : literature data after 1950 ; small open circles : literature data before 1950.

The total number of 10 km squares from which faunistic data are available is 154. Blank squares, of which there are 221, indicate that there are no records of ostracods. This is in all probability due to an absence of recording rather than to an absence of ostracods. This means that data are available from only 41% of the grid squares. This assessment is the main reason why the present check-list is considered preliminary. Future collecting is required if real distribution patterns are to be discerned.

2. The presently known non-marine ostracod fauna of Belgium consists of 76 species, belonging to 35 genera. Some species are rare to very rare, others are common to very common. In order to give an approximate idea of their distribution in Belgium, the species are listed according to the number of U.T.M. squares in which they were found (numbers of squares indicated between brackets).

More than 20 squares :

*Cyprina ophthalmica* (75), *Cypridopsis vidua* (46), *Candona candida* (46), *Cyclocypris ovum* (39), *Herpetocypris reptans* (29), *Heterocypris incongruens* (25), *Candona neglecta* (21).

11 to 20 squares :

*Ilyocypris bradyi* (20), *Eucypris virens* (20), *Physocypris kraepelini* (18), *Notodromas monacha* (18), *Limnocythere inopinata* (17), *Cyclocypris laevis* (16), *Psychrodromus olivaceus* (16), *Ilyocypris gibba* (16), *Bradleystrandesia fuscata* (15), *Potamocypris zschokkei* (15), *Sarscypridopsis aculeata* (13), *Candonopsis kingsleii* (13), *Plesiocypridopsis newtoni* (12), *Potamocypris unicaudata* (12), *Herpetocypris chevreuxi* (12), *Eucypris pigra* (12), *Pseudocandona pratensis* (11), *Isocypris beauchampi* (11), *Fabaeformiscandona fabaeformis* (11), *Cyprina subsalsa* (11).

6 to 10 squares :

*Darwinula stevensoni* (10), *Bradleystrandesia reticulata* (10), *Cyprideis torosa* (10), *Cyprina exsculpta* (8), *Potamocypris villosa* (8), *Heterocypris salina* (8), *Cypris pubera* (8), *Loxoconcha elliptica* (7), *Pseudocandona albicans* (7), *Tonnacypris lutaria* (7), *Pseudocandona hartwigi* (6), *Scottia pseudobrowniana* (6).

1 to 5 squares :

*Ilyocypris monstifica* (5), *Candona angulata* (5), *Pseudocandona compressa* (5), *Pseudocandona zschokkei* (5), *Cyclocypris serena* (5), *Cavernocypris subterranea* (5), *Ilyocypris inermis* (4), *Fabaeformiscandona hyalina* (4), *Fabaeformiscandona protzi* (4), *Pseudocandona triquetra* (4), *Cryptocandona vavrai* (4), *Strandesia (Neocypris) obliqua* (4), *Fabaeformiscandona fragilis* (3), *Pseudocandona crispata* (3), *Pseudocandona marchica* (3), *Cryptocandona leruthi* (3), *Cyclocypris globosa* (3), *Cypridopsis hartwigi* (3), *Cypridopsis parva* (3), *Herpetocypris brevicaudata* (3), *Prionocypris zenkeri* (3), *Ilyocypris decipiens* (2), *Candona weltneri* (2), *Fabaeformiscandona caudata* (2), *Potamocypris arcuata* (2), *Potamocypris fulva* (2), *Potamocypris smaragdina* (2), *Dolerocypris fasciata* (2), *Eucypris elliptica* (2), *Metacypris cordata* (1), *Cytherura gibba* (1), *Romeis rivulorum* (1), *Fabaeformiscandona holzkampfi* (1), *Pseudocandona belgica* (1), *Pseudocandona lobipes* (1), *Potamocypris similis* (1).

3. Nine species are here reported from Belgium for the first time : *Cytherura gibba*, *Ilyocypris inermis*, *Fabae-*

*formiscandona caudata*, *Fabaeformiscandona holzkampfi*, *Fabaeformiscandona protzi*, *Pseudocandona lobipes*, *Potamocypris similis*, *Dolerocypris fasciata* and *Prionocypris zenkeri*.

#### 4. Taxonomic remarks

*Herpetocypris lenta* ROME, 1947 is a junior synonym of *Herpetocypris brevicaudata* KAUFMANN, 1900. *Herpetocypris caerulea* ROME, 1954 and *Herpetocypris agilis* ROME, 1954 are both junior synonyms of *Herpetocypris chevreuxi* (SARS, 1896).

*Physocypris perlata* ROME, 1943 is a junior synonym of *Physocypris kraepelini* MÜLLER, 1903 (see SLUYS, 1979 and MEISCH, 1982). *Isocypris quadrisetosa* ROME, 1947 is a junior synonym of *Isocypris beauchampi* (PARIS, 1919) (see MEISCH, 1980). Finally, *Cypridopsis mariae* ROME, 1943 probably is a junior synonym of *Cypridopsis parva* MÜLLER, 1900, but this needs further elaboration.

5. Some species remain unknown from Belgium, although they occur in one or more adjacent countries : *Stenocypris fischeri* (LILLJEBORG, 1883), *Trajancypris clavata* (BAIRD, 1838), *Eucypris ornata* (O.F. MÜLLER, 1776), *Eucypris lilljeborgi* (G.W. MÜLLER, 1900), *Cypris marginata* (STRAUSS, 1821), *Potamocypris variegata* (BRADY & NORMAN, 1889), *Potamocypris pallida* ALM, 1914, *Potamocypris fallax* FOX, 1967, *Fabaeformiscandona acuminata* (FISCHER, 1854), *Pseudocandona rostrata* (BRADY & NORMAN, 1889), *Pseudocandona insculpta* (G.W. MÜLLER, 1900), *Paracandona euplectella* (BRADY & NORMAN, 1889), and perhaps also a number of other candonids.

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