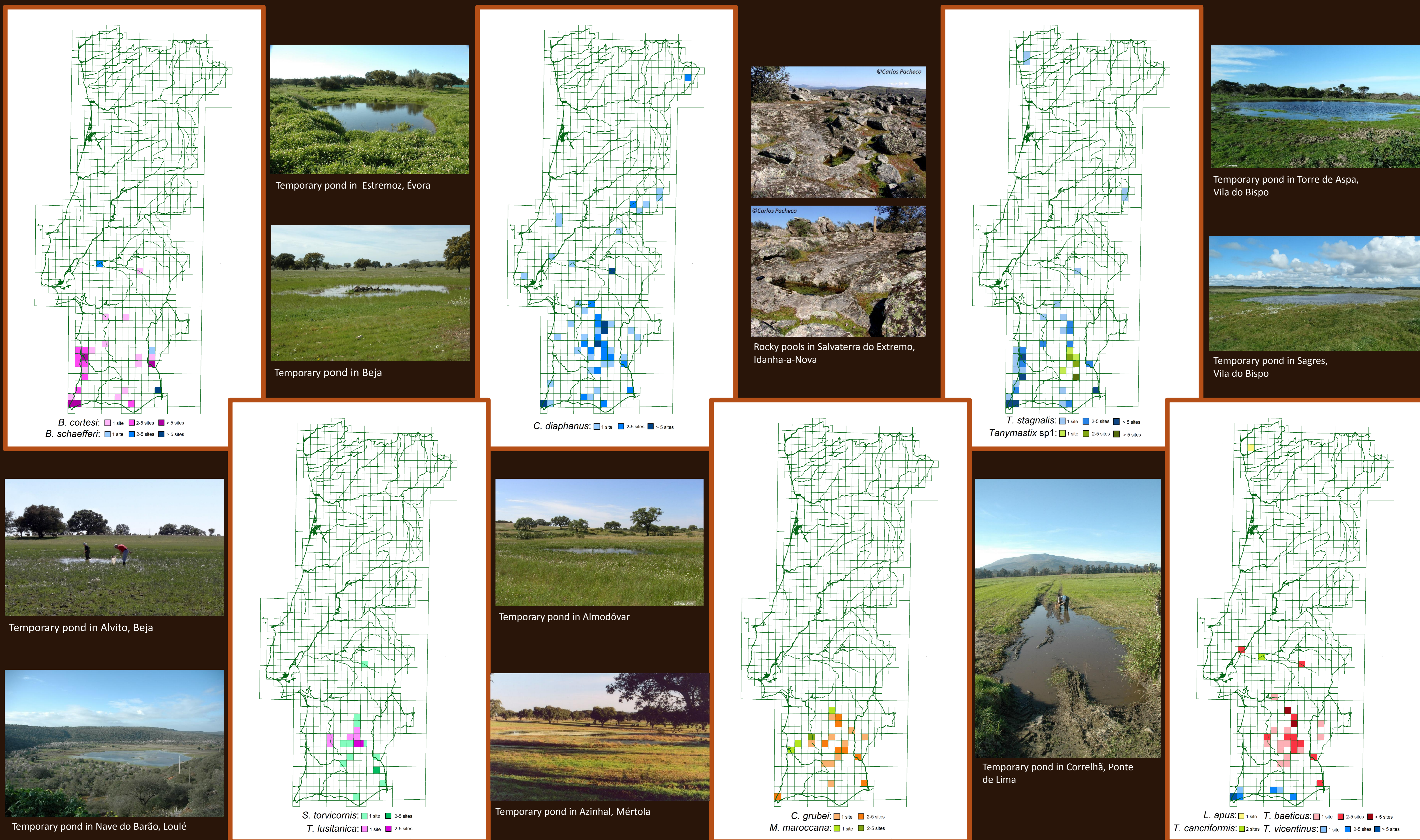


## State of the art

- In 1951, Vianna-Fernandes (1) registered, for the first time, the occurrence of 3 species of freshwater large branchiopods (FLB) in Portuguese temporary ponds and pools: *Tanymastix lacunae* (= *T. stagnalis*), *Triops cancriformis mauritanicus* e *Caenestheriella grubei* (= *Cyzicus grubei*).
- Only 45 years later, the present authors resumed the study of this crustacean group. Since then several studies were accomplished, resulting in scientific publications and reports (2, 3, 4, 5, 6, 7, 8, 9).



- In the last decade, the taxon *Triops cancriformis* have been revised on the base of genetic analyses (10): i) the subspecies *cancriformis* and *mauritanicus* were reinstated to full species status; ii) Korn et al. (10) also raised to subspecies rank two Northern African lineages within *T. mauritanicus*. Soon after, four more Iberian endemic lineages within *T. mauritanicus* were recognized and full species status were attributed to all six *T. mauritanicus* lineages (11). The populations from Portugal were assigned either to the Portuguese endemism *T. vicentinus*, or to *T. baeticus*.
- More recently, a male free (or, at least, a strongly female-biased) metapopulation of *T. cancriformis* was discovered in a rice field in central region of Portugal (12).

## Taxon [number of sites where it has been found]

### Anostraca

- Branchipus cortesi* Alonso & Jaume, 1991 [73]  
*Branchipus schaefferi* Fischer, 1834 [13]  
*Chirocephalus diaphanus* Prevost, 1820 [121]  
*Streptocephalus torvicornis* (Waga, 1842) [13]  
*Tanymastigites lusitanica* Machado & Sala, 2013 [9]  
*Tanymastix stagnalis* (L., 1758) [86]  
*Tanymastix sp.1* [n. sp. or n. spp.] [15]



### Spinicaudata

- Cyzicus grubei* (Simon, 1886) [34]  
*Maghrebestheria maroccana* Thiéry, 1988 [6]

### Notostraca

- Lepidurus apus* (L., 1758) [1]  
*Triops baeticus* Korn, 2010 [65]  
*Triops cancriformis* (Lamarck, 1801) [2]  
*Triops vicentinus* Korn, Machado, Cristo & Cancela da Fonseca, 2010 [23]

## Results

- Here we present an updated inventory of FLB species of Portuguese temporary systems and their distribution, plotted into a UTM (10 x 10 km) grid (map adapted from 13).
- A total of 505 sites (temporary ponds or assemblages of closely located, not individualized temporary pools) have been surveyed (455 by ourselves). In 224 of those (47.0%) at least one species of LB was found in one occasion. From the 505 sites, only 87 are located North to Tagus River and from these, only in 17 (19.5%) at least one species was found. South to Tagus River (part of Ribatejo, Alentejo and Algarve), 53.6% of the sites were inhabited by at least one species.
- The inventory includes 7 anostracans, 2 spinicaudatans and 4 notostracans.**

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