## Discoglossus galganoi tadpoles: egg and carcass cannibalism

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**RESUMEN:** En este trabajo se describen dos episodios de canibalismo de *Discoglossus galganoi* en la zona de especial conservación de Gándaras de Budiño (Pontevedra).

During our winter monitoring of amphibian breeding success in the Special Conservation Area (SCA) of Gandaras de Budiño and Ribeiras do Louro (NG36) we detected two episodes of cannibalism by *Discoglossus* galganoi tadpoles.

The first one was detected on April 1, 2016. Two dead adults were found on a shallow pond created due to the water runoff through the wall of an old clay pit. One of them was on a hole on the bottom of the pond (see Figure 1), being consumed by tadpoles.

The second episode was detected on May 5<sup>th</sup> 2016. A late clutch was being consumed actively by tadpoles of at least three previous clutches (see Figure 2).

Oophagy on conspecifics spawns have been described on many species as Bufotes viridis, Isthmohyla pseudopuma, Dendrobates ventrimaculatus and Phrynohyas resinifictrix (references in Escoriza, 2014).

Cannibalistic oophagy has been described on *D. galganoi* (Nicieza *et al.*, 2006) and also on *Discolgossus pictus* (Licata *et al.*, 2015). Cannibalism seems to represent an ideal diet because of its composition, which can also benefit reducing competition on ephemeral ponds with low availability of resources and high density of conspecifics (Jefferson *et al.*, 2014). It has been suggested that it could be an adaptation to xeric habitats (Degani, 2016). But this behaviour has some risks, if the adults died from an emerging disease or pathogen, which could also affect the tadpoles (Pfenning *et al.*, 1998).

In our case, where the pond is small (less than  $0.50 \text{ m}^2$ ) and there is no vegetation, the presence of dead conspecifics or new clutches represents an emergent resource that is readily consumed by tadpoles, allowing them to reach the metamorphic



**Figure 1:** Carcass of an adult *D. galganoi* on a hole on the bottom of the pond being consumed by tadpoles. **Figura 1:** Cadáver de un adulto en el fondo de la charca, siendo consumido por los renacuajos.



Figure 2: Late clutch being consumed actively by tadpoles.

Figura 2: Puesta tardía siendo consumida activamente por los renacuajos. stage. This small pond was not the primary breeding area for the species, but as mining activity is still active on the SCA, the landscape has changed in the last year, forcing *D. galganoi* to select suboptimal breeding habitats.

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