SHORT NOTE

ANVIL-USE BY AONYX CAPENSIS: A REBUTTAL

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Abstract: The claim that Aonyx capensis uses anvils to break open hard prey is rejected. It is believed that the authors who originally made the claim that the otter had used anvils to open freshwater mussels, based on signs in the field and not on direct observations, ignored the more likely possibility that the anvils had been used by the water mongoose Atilax paludinosus, which does employ this type of behaviour.

A number of authors, e.g. Estes (1989), Lariviere (2001), Mason and Macdonald (2009), Nowak (1999), and Sheppey and Bernard (1984) have referred to anvil using behaviour by the Cape clawless otter Aonyx capensis, based on the original statement by Donnelly and Grobler (1976). The observations by Donnelly and Grobler (1976) were made in Rhodes Matopos National Park (in present Zimbabwe), when after a dry spell, dam (impoundment) levels dropped and the shoreline receded about 5 m, exposing freshwater mussels embedded in the mud. The authors noted that there were concentrations of mussel shells around hard objects such as rocks, logs, and even bottles and a metal pipe, and assumed that otters had used these objects as anvils to break open the mussels. One of the photographs, however, in which they show clawless otter tracks in the mud at an anvil site, also shows numerous water mongoose Atilax paludinosus tracks to and from the anvil (a log).

Donnelly and Grobler (1976) did not actually see otters using anvils and make no reference to their possible use by water mongooses, that do use anvils to open hard objects (Baker, 1989; Rowe-Rowe, 1978). When dealing with hard-shelled items (e.g. eggs, snails, mussels) the water mongoose grasps it in its fore feet, stands on its hind legs, then throws the object downwards (Fig. 1). If it does not succeed in opening it, the mongoose takes it to the nearest hard object which it uses as an anvil.
Anvil-use was never observed by Rowe-Rowe (1975, 1977) during 19 months of observation and feeding trials on an adult female *A. capensis*; neither in many hours of field observations in subsequent years. Hard-shelled prey is always dealt with by crushing it with its powerful molars (Rowe-Rowe, 1977; Rowe and Somers, 1998). *A. capensis* often does grasp prey in both fore feet while feeding (Fig. 2), but was never seen throwing prey downwards; almost always consuming its prey in the water. In the captive otter, if it needed to transport food to the water, it grasped it in one fore foot, and while holding it against its chest, hobbled on three legs to the water (Fig. 3).
Regarding the otter tracks which Donnelly and Grobler (1976) observed leading to the mussel shells, my opinion is that the otter visited the site, which was close to the water, out of curiosity. In some mammal surveys that I conducted I used scent posts (Linhart and Knowlton 1975) to attract carnivores for identification from tracks. Scent posts set beside water bodies were often visited by *A. capensis*, apparently out of curiosity.

In conclusion, I am of the opinion that *Aonyx capensis* does not indulge in anvil-using behaviour to open prey.

**REFERENCES**


RÉSUMÉ
L’UTILISATION D’UNE ENCLUME PAR LA LOUTRE À JOUES BLANCHES, *AONYX CAPENSIS*: UN DÉMENI
L’affirmation selon laquelle *Aonyx capensis* utilise des enclumes pour casser une proie dure est fortement contestable. Il est admis que les auteurs qui avaient au départ lancé l’affirmation que la loutre avait utilisé des enclumes pour ouvrir des moules d’eau douce, basée sur des indices de terrain et non sur des observations directes, ignoraient que la possibilité la plus probable serait que les enclumes aient été utilisées par la mangouste des marais, *Atilax paludinosus*, qui a ce type de comportement.

RESUMEN
USO DE “YUNQUES” POR *Aonyx capensis*: REFUTACIÓN
La postulación de que *Aonys capensis* utiliza “yunques” para romper y abrir presas duras, es rechazada. Se cree que los autores que originalmente postularon que la nutria había usado “yunques” para abrir almejas de agua dulce, basándose en signos en terreno y no en observaciones directas, ignoraron la posibilidad más probable, de que los “yunques” hayan sido usados por la mangosta acuática *Atilax paludinosus*, que sí emplea este tipo de comportamiento.