

## Two new species of *Camallanus* (Nematoda: Camallanidae) from freshwater turtles in Queensland, Australia.

### ABSTRACT

We describe 2 new species of *Camallanus* (Nematoda: Camallanidae) from freshwater turtles collected in Queensland, Australia: *Camallanus nithoggi* n. sp. from *Elseya latisternum* (Gray) and *Camallanus waelhreow* n. sp. from *Emydura krefftii* (Gray), *Emydura macquarrii* (Gray), and *Em. macquarrii dharra* Cann. The only *Camallanus* sp. previously reported from turtles is *C. chelonius* Baker, 1983 (all other species in the family have been transferred to *Serpinema*). The 2 new species described here differ from *C. chelonius* in the number of male preanal papillae (7 vs. 6 in *C. chelonius*), the number of male postanal papillae (5 vs. 4 in *C. chelonius*), and the number of buccal capsule ridges. Additionally, we removed the tissues overlying the buccal capsule and used scanning electron micrographs (SEM) to show that the peribuccal shields extend laterally from the buccal capsule, the basal ring is separated from the buccal capsule by a narrow isthmus, and there is a buttress along the lateral margin of the buccal capsule that has not previously been observed in species of *Camallanus*.

**Keyword:** *Camallanus*; Australia; Turtles.