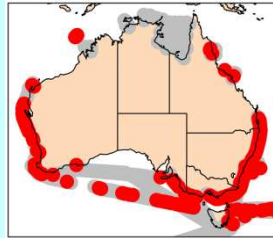
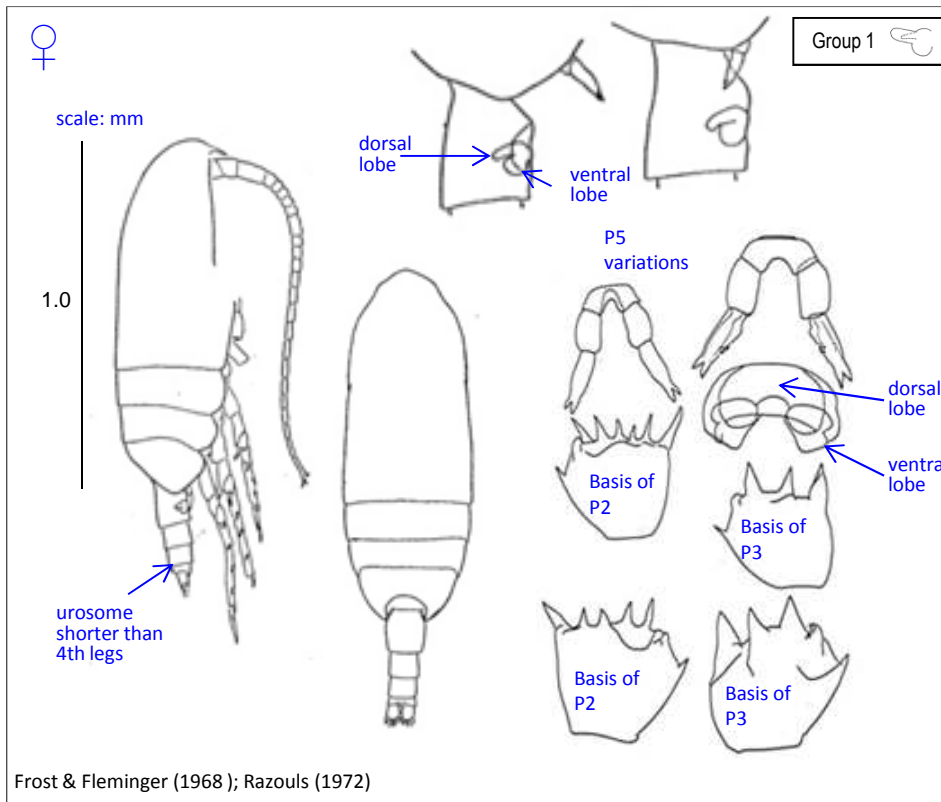


Clausocalanus arcuicornis

(Dana, 1849)



Phylum Arthropoda
Order Calanoida
Family Clausocalanidae



Synonyms

Calanus arcuicornis Dana, 1849
Calanus mastigophorus Claus, 1863
Clausocalanus mastigophorus (Claus, 1863)
Eucalanus mastigophorus (Claus, 1866)

Size

Female: 1.15-1.62 mm

Genus notes

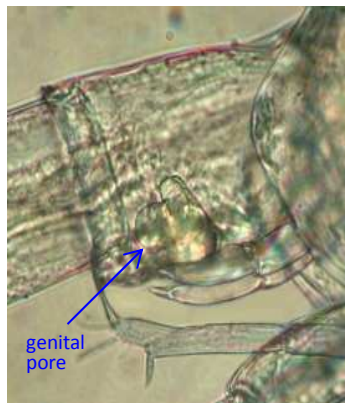
- Small to medium sized copepods
- Female rostrum bifurcated
- Male rostrum reduced to a knob
- Anterior cephalosome & posterior prosome segments are rounded
- Cephalosome fused to pedigerous somite 1
- Female P5 is uniramous, symmetrical and 3-segmented
- Male P5 uniramous, legs of unequal length, longer leg nearly always on left, 5-segmented with segment 5 short & attached sub-apically to the previous segment, shorter leg 3-segmented, less than half of the length of segment 1 of the other leg
- Female urosome 4-segmented
- Can be confused with *Paracalanus* but P5 is a different form

Female

- A1 as long or slightly longer than prosome
- Rostrum in lateral view is short, bifurcated, thick at base, usually straight or slightly curved and directed ventrally
- The 3rd segment of P5 as long as the preceding 2 segments together; segment 3 bifurcated, sometimes with tiny spinules on inner and outer margins
- Prosome : Urosome ratio 2.65-3.22:1
- Urosome shorter than 4th legs
- Genital somite in lateral view straight, or slightly concave, in region of seminal receptacle
- Genital somite 1.5 times as long as urosome somite 3
- Caudal rami about as long as broad

Distribution

- Epipelagic
- Inshore coastal, coastal and oceanic
- Australian distribution includes Tasmania, North West Cape, New South Wales and Great Barrier Reef
- World distribution: widespread in tropical and subtropical waters of the Pacific, Indian and Atlantic Oceans



CSIRO AusCPR

North Stradbroke Island Queensland

A. Slotwinski, CSIRO © 2012

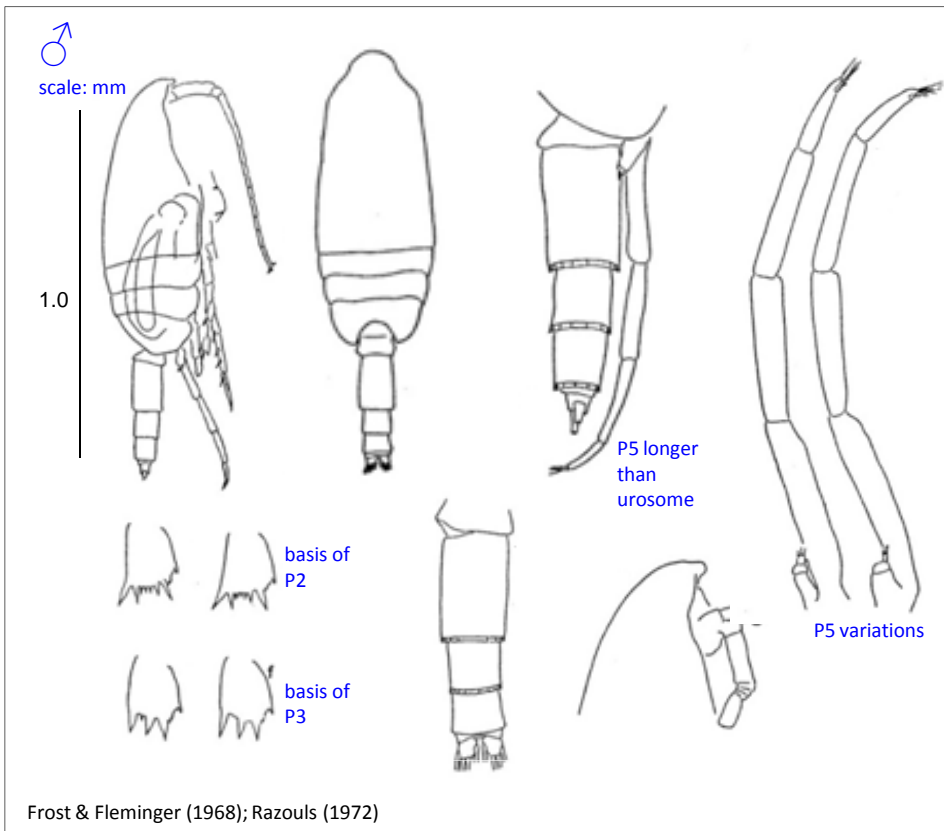
Compiled: C. H. Davies & A. S. Slotwinski 2011
 Verified: K. M. Swadling 2013



Clausocalanus arcuicornis

(Dana, 1849)

Phylum	Arthropoda
Order	Calanoida
Family	Clausocalanidae



Size

Male: 0.97-1.17 mm

Male

- Rostrum in lateral view knoblike and protruding ventrally
- P5 right, short, 3 segmented
- P5 left leg is longer than urosome, robust, with long, slender, straight setae distally
- Prosome urosome ratio 1.9—2.51:1
- 2nd urosome somite as long as the following 2 somites together

Ecology

- Tropical-subtropical, circumglobal
- Can be transported into temperate regions with warm currents
- Most abundant off New South Wales during April and May; 17 – 19° sea surface temperatures
- Carries eggs in a single, fragile sac
- Herbivorous

Source

Boltovskoy (1999)
 Conway (2003)
 Dakin and Colefax (1940)
 Razouls et al (2010)
 Saiz & Calbert (1999)
 (Full reference available at <http://www.imas.utas.edu.au/zooplankton/references>)