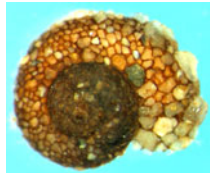


# Quick guide to the MCI cased Trichoptera

By Brian J. Smith



Is the case coiled resembling a snail shell?

NO

Was the larva collected from the marine rocky shore?

NO

Is the antennae prominent, & the hind legs at least 3X longer than forelegs?

NO

Is the case (applies to 5<sup>th</sup> & 6<sup>th</sup> instars only) small (4 mm), semi transparent & laterally flattened? Spines may be present on the case. Larva with all thoracic segments sclerotised.

NO

Are at least the tibia and tarsi of the middle legs fused, & the fore & mid-legs modified for grasping & holding?

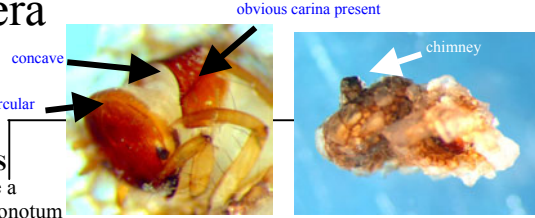
NO

## Helicopsychidae

YES

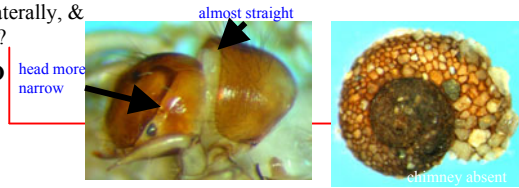
Does the case have a chimney? Is the pronotum strongly carinate laterally, & concave anteriorly?

YES



*Rakiura*  
MCI = 10

NO



*Helicopsyche*  
MCI = 10

## Chathamiidae

YES

Do tarsi have a dark band?

NO



*Philanisus*  
No MCI

YES



*Oecetis*  
No MCI

## Leptoceridae

YES

Are the mandibles half the head capsule length, & mid & hind tarsal claws length of its tarsi?

YES

YES

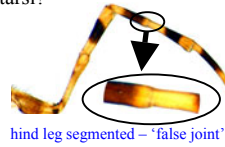


*Triplectidina*  
MCI = 5

NO

Does the hind tibia have an extra segment or 'false joint'?

YES



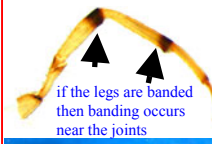
Are the limbs free of dark banding?

NO



*Triplectides*  
MCI = 5

NO



*Hudsonema*  
MCI = 6

sclerotised thoracic segments

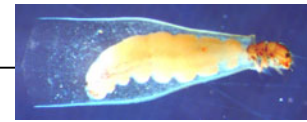


YES

## Hydroptilidae

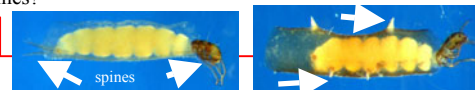
Is the case axe-head shaped and without spines?

YES



*Oxyethira*  
MCI = 2

NO



*Paroxyethira*  
MCI = 2

## Philorheithridae

YES

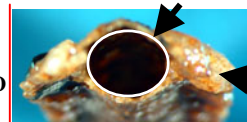
Is the case rounded in x-section & lacking lateral flanges?

ellipsoid x section

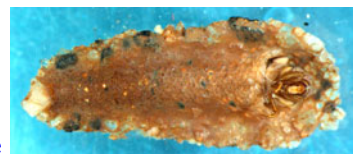


*Philorheithrus*  
MCI = 8

NO



## Kokiriidae



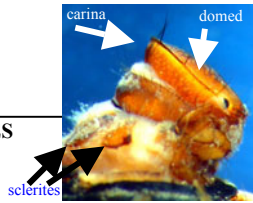
*Kokiria*  
MCI = 9

CONTINUED

**CONTINUED**

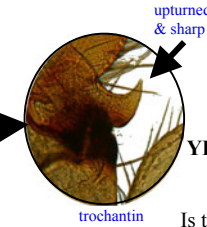
Is the head capsule domed & strongly carinate, & the mesonotum with >2 sclerites? Is the case straight, slightly tapered & constructed of either organic or inorganic material?

YES



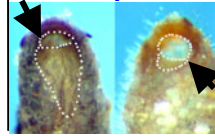
**Oeconesidae**  
MCI = 9

NO



YES

**Helicophidae**



frontoclypeus parallel sided near anterior margin

YES



**Alloecentrella**  
MCI = 9



Are the lateral margins of the frontoclypeus parallel sided?

NO



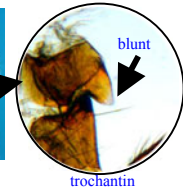
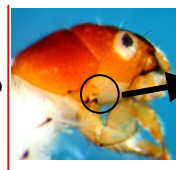
frontoclypeus divergent near anterior margin



**Zelolessica**  
MCI = 10

Is the foreleg trochantin strongly upturned?

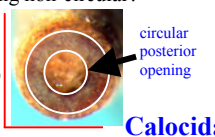
YES



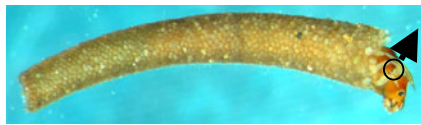
NO

NO

Is the case generally constructed of organic material, or a mixture of sand & organic matter with a posterior dorsal extension? Is the posterior opening non-circular?



**Calocidae**



**Pyncocentrella**  
MCI = 9

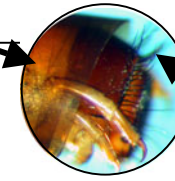
**Conoesucidae**

Does the head capsule appear flattened dorsally? The carina generally extends beyond the eyes?

YES



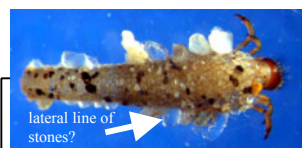
YES



**Confluens**  
MCI = 5

Does the pronotum have a prominent fringe of setae, & is the case entirely secreted without a posterior dorsal extension?

NO

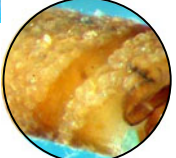


**Pyncocentroides**  
MCI = 5

The case is predominately constructed of sand & small stones? The legs may be banded. NOTE; Occasionally silk predominates the case with some sand grains attached. Mature larvae generally have a lateral line of larger stones.

NO

YES



**Periwinkla**  
no MCI

Do even-sized sand grains encircle the secreted case? Is the pronotum strongly carinate, & the head capsule & pronotum darkly pigmented. NOTE; the head capsule carina does not extend beyond the eyes.

NO



anterior opening of case flared and oblique

**Beraeoptera**  
MCI = 8

Is the head capsule rounded & its carina not extending beyond the eyes?

NO



YES



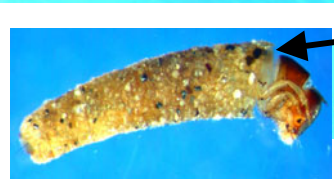
**Olinga**  
MCI = 9

NO

Is the case entirely secreted with its anterior opening always straight & posterior never with a dorsal extension? Is the pronotum non-carinate?

NO

Case construction is variable (sand, silk or both). A posterior dorsal extension maybe present & the anterior opening may be straight or oblique. The pronotum is always carinate.



**Pyncocentria**  
MCI = 7

