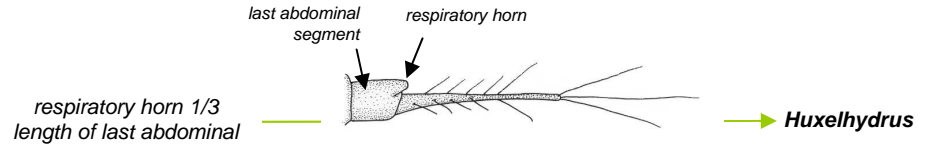


Quick guide to New Zealand Dytiscidae (larvae)

Prepared by Brian Smith (2007)



YES

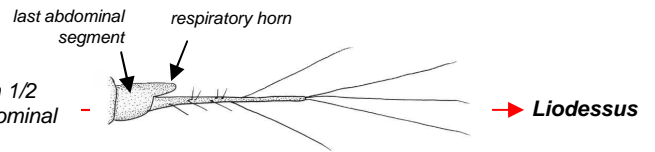
Is the caudal respiratory horn <1/2 length of posterior abdominal segment?

YES

Is the frontal projection non-spatulate, lacking projections, & the repository very short?

NO

respiratory horn 1/2 length of last abdominal



swimming hairs absent

Hydroporinae

YES



larva about 8 mm

caudal respiratory horn almost as long

YES



Does the head have frontal projections & 3 segmented maxillary palps?

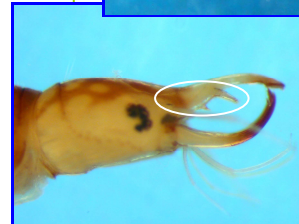
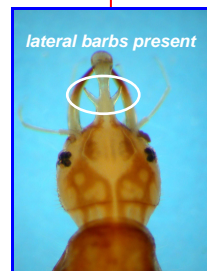
Does the frontal projection lack lateral barbs?



NO

NO

head lacking frontal projections; maxillary palps ≥ 4 segments



YES

larva about 10 mm

Are lateral & basal barbs present on the frontal projection, & the caudal respiratory horn absent?

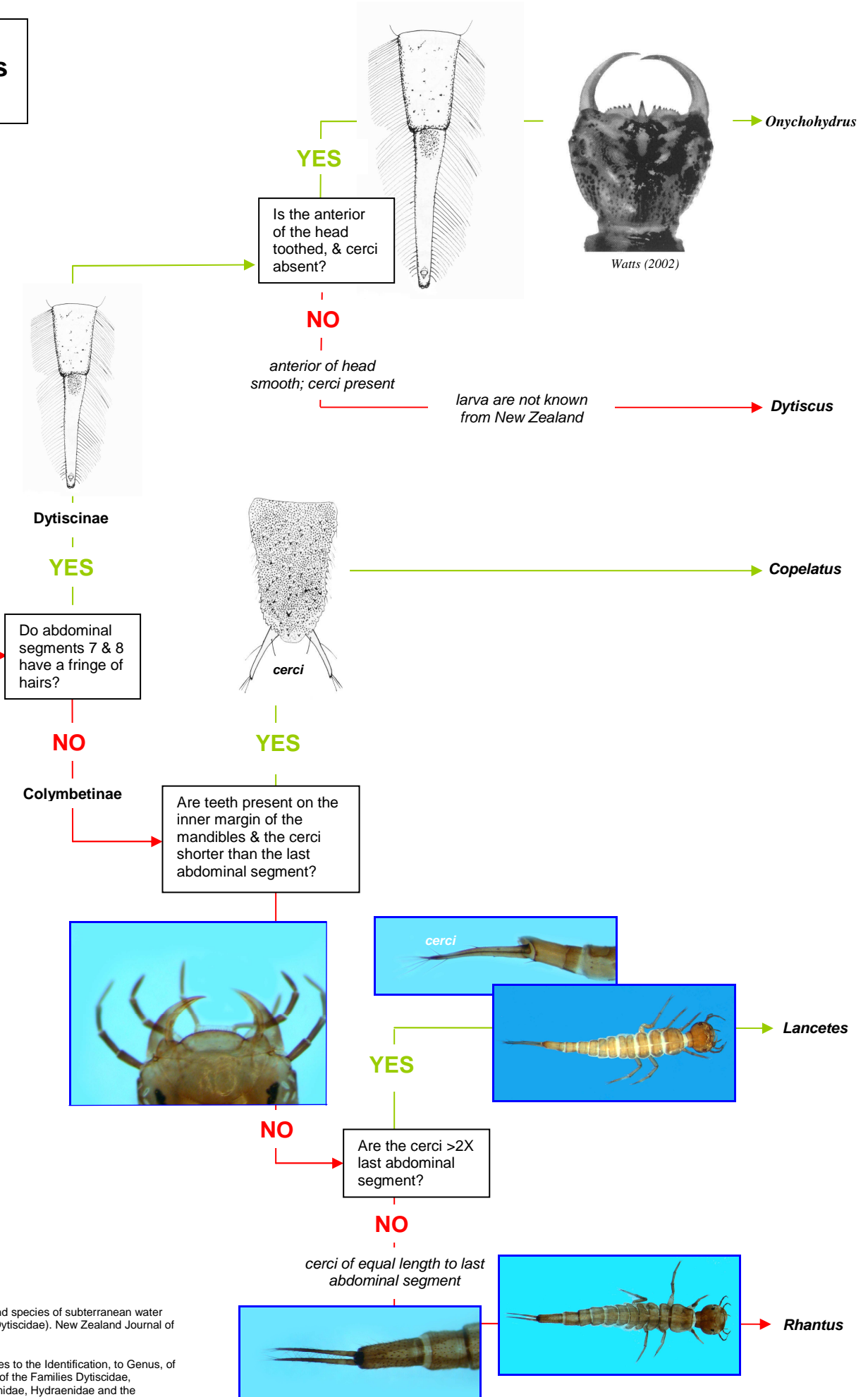
NO

unique larva (2.2 mm) known only from a Nelson well



Continued overleaf

Continued from previous page



References:
 Ordish, R.C. (1976). Two new genera and species of subterranean water beetle from New Zealand (Coleoptera: Dytiscidae). *New Zealand Journal of Zoology*, 3(1): 1–10.

Watts, C.H.S. (2002). Checklists & Guides to the Identification, to Genus, of Adult & Larval Australian Water Beetles of the Families Dytiscidae, Noteridae, Hygrobiidae, Halplidae, Gyrinidae, Hydraenidae and the Superfamily Hydrophiloidea (Insecta: Coleoptera). Identification and Ecology Guide no 43. Cooperative Research Centre for Freshwater Ecology. Dytiscinae and Onychohydrus figures reproduced with permission.

Liodessus and *Huxelhydrus* redrawn from Winterbourn, M.J., Gregson, K.L.D. & Dolphin, C.R. (2006). Guide to the Aquatic Insects of New Zealand. *Bulletin of the Entomological Society of New Zealand* 14: 108 pp.

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