

## New and little known Palearctic species of the genus *Hydraena* (s.l.) KUGELANN IV (Coleoptera: Hydraenidae)

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### Abstract

A new species of Hydraenidae, *Hydraena* (s.str.) *bicolorata* [from Yugoslavia, Greece and Turkey], is described. *Hydraena corcyra* JÄCH, 1992 is synonymized with *Hydraena canakcioglui* JANSSENS, 1965.

**Key words:** Coleoptera, Hydraenidae, *Hydraena*, taxonomy, Yugoslavia, Greece, Turkey

### Introduction

The species of the *Hydraena pulchella* GERMAR complex (*H. canakcioglui* JANSSENS, *H. corcyra* JÄCH, *H. phassilyi* d'ORCHYMONT, and *H. pulchella*) are characterized by a rather small, simple aedeagus (5 - 10 apical setae present, dorsal setae lacking, distal lobe slender and inconspicuous, parameres long and thin), by the comparatively small size (ca. 1.4 - 1.8 mm long) and by the more or less conspicuously bicoloured (black and brown, or yellow and brown) pronotum. Furthermore, some of these species (e.g. *H. canakcioglui*, *H. pulchella*) are widely distributed and rather variable in their external appearance. Thus - since more material became available recently - it is not surprising that, on one hand, a new synonymy was detected and, on the other hand, a hitherto unrecognized, "cryptic", new species was "discovered".

### Acronyms and acknowledgements

CFL: Coll. Ferro, Lancenigo; ISNB: Institut royal des Sciences naturelles de Belgique, Bruxelles; NMW: Naturhistorisches Museum, Wien.

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### *Hydraena* (s.str.) *canakcioglui* JANSSENS

*Hydraena canakcioglui* JANSSENS 1965a: 83. - JANSSENS 1965b. - JÄCH 1988.

*Hydraena aydini* JANSSENS 1968: 67. - JÄCH 1988.

*Hydraena corcyra* JÄCH 1992: 93 **syn.n.**

**TYPE LOCALITY:** Denizli, northeast of Kartal (Pendik), southeast of Istanbul (Üsküdar), Istanbul Province, Turkey.

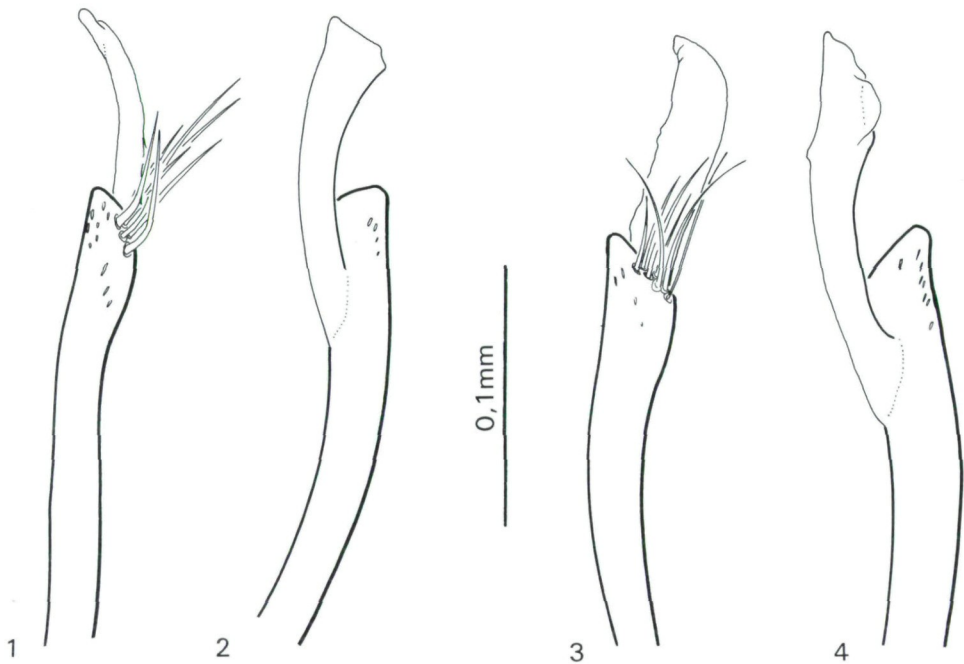
**TYPE MATERIAL:** The holotype ♂ (not examined) is deposited in the ISNB. There are no paratypes.

I have examined about 130 specimens deposited in the NMW (from Greece and Turkey) and 1 ♂ deposited in the CFL (from Greece, Preveza, 180 m, 20.V.1991, leg. Ferro).

Although *Hydraena canakcioglui* is a wide-spread, morphologically rather variable species (see JÄCH 1988), I have little doubt that *Hydraena corcyra* is a junior synonym.

The aedeagus was depicted by JÄCH (1992: Fig. 20) and JANSSENS (1965a: Fig. 2; 1965b: Fig. 88).

**DISTRIBUTION:** Greece (Corfu, Ipiros), Turkey (Kırklareli, Istanbul, Kastamonu, Ordu, Gümüşhane, Erzincan, Erzurum, Artvin, Kars, Hakkari). The obvious distributional gap in northern Greece is remarkable.



Figs. 1 - 4: apex of penis of 1) *Hydraena phassilyi*, dorso-lateral aspect, 2) same, ventral aspect, 3) *H. bicolorata*, dorso-lateral aspect, 4) same, ventral aspect.

***Hydraena (s.str.) phassilyi* d'ORCHYMONT**

*Hydraena phassilyi* d'ORCHYMONT 1931: 28. - d'ORCHYMONT 1944. - CHIESA 1959. - JANSSENS 1965b. - GUEORGUIEV 1971. - IENISTEA 1978. - JÄCH 1992.

**TYPE LOCALITY:** Vlasis River, south of Hagios Vlasios, Peloponnesos, Greece.

**TYPE MATERIAL:** I have examined the holotype ♂ (ISNB): "♂ \ Morea H.Vlasios S.Tor.Vlasis Alt.750m 30 IV 1930 d'Orchym. \ Type \ A.d'Orchymont det. Phassilyi d'Orchymont \ E.Janssens det., 195 Hydraena s.str. phassilyi Orchym." and 2 of the 39 paratypes (ISNB).

**ADDITIONAL MATERIAL EXAMINED:**

**G R E E C E:** PELOPONNES: ACHAIA: 9 exs.: Vouraikos River, ca. 30 - 850 m a.s.l., 20.-23.IX.1994, leg. Jäch (NMW); LAKONIA: 1 ♀: Sparti, Poliana, VIII.1980, leg. Audisio (NMW).

1.4 - 1.7 mm long. Aedeagus (see Figs. 1, 2): 0.33 - 0.34 mm long.

**DISTRIBUTION:** This species was thought to be widely distributed in southeastern Europe and Turkey (see d'ORCHYMONT 1931, 1944, JANSSENS 1965b, JÄCH 1992). In fact, *H. phassilyi* is restricted to the Peloponnes; all other specimens hitherto assigned to *H. phassilyi* represent a new species which is described below.

***Hydraena (s.str.) bicolorata* sp.n.**

**TYPE LOCALITY:** Nestos River, ca. 20 m wide, at Paranesti, Macedonia, Dráma Administrative District, northern Greece.

**TYPE MATERIAL:** **Holotype** ♂ (NMW): "GR-THRAKI 8.8.88 Nestos/Paranest. leg.Jäch (72)". **Paratypes** (NMW): 13 exs.: same label data as holotype; 1 ♂: "GR-Rodopi 8.8.88 Dipotama leg.Jäch (73)"; 22 exs.: "GR-

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Rodopi 8.8.88 Dipotama leg. Jäch (74)"; 4 exs.: "GR-MAKED 9.8.88 Drama-Livadero leg. Jäch (76)"; 8 exs.: "GR-THRAKI 8.8.88 Kosintos Fl. n Xanthi; Jäch(71)"; 4 exs.: GR-THRAKI 27.7.88 3km s Mikro Derio leg. M. Jäch (27)"; 1 ♀: "GR - 1.8.1991, 650m 21°58'E 37°55'N S Desinon leg. Malicky (439)"; 33 exs.: "GR-Euböa (6) Steni-Stroponas 650 m 30.IX. leg. Jäch 1992"; 4 exs.: "Castelnuovo Holdhaus \ Ercegnovi \ CRNA GORA"; 4 exs.: "Castelnuovo Holdhaus"; 2 exs.: "Hummler Castelnuovo"; 1 ex.: "Castelnuovo Paganetti"; 3 exs.: "TR-Thrakia (34) Istranca 28.7.88 leg. Jäch"; 6 exs.: "NW-ANATOLIEN(53) Aliova Fl. 2.8.88 w. Dursunbey; Jäch"; 4 exs.: "NW-ANATOLIEN(55) Balikesir-Susurl. leg. Jäch 2.8.88"; 1 ♀: "TR Prov. Canakk. 5km w Yenice(57) leg. Jäch 4.8.88"; 3 exs.: "NW-ANATOLIEN(58) w Kalkim 3.8.88 Prov. Canakk.; Jäch"; 15 exs.: "TR 5.8.88(64) s Ayvacik; Jäch Prov. Canakkale"; 2 exs.: "TR 5.8.88 (65) s Türkmenli; Jäch Prov. Canakkale"; 6 exs.: "TR - MUGLA 28.V.1991 Zine Fluß, 250m leg. Jäch (54)".

**DIFFERENTIAL DIAGNOSIS:** 1.4 - 1.7 mm long. Externally, *Hydraena bicolorata* can be hardly distinguished from *H. phassilyi*. The pronotum is usually more distinctly bicoloured in *H. bicolorata*, with the anterior and posterior pronotal margin being more brightly and more extensively yellowish. The mesotibia of the ♂ is less robust, less distinctly arched and subapically less strongly dilated than in *H. phassilyi*. *Hydraena bicolorata* can be hardly distinguished from *H. canakcioglu* by external characters. Elytral apices of ♀♀ usually more strongly acuminate than in ♀♀ of *H. canakcioglu*. Spermatheca and female pygidial sclerites as in *H. canakcioglu*.

**Aedeagus** (see Figs. 3, 4, and JÄCH 1992: Fig. 21): longer than that of *Hydraena phassilyi* (0.36 - 0.38 mm long). Apex of main piece more distinctly produced, more acute (best observed in ventral aspect, after removal of parameres) than in *H. phassilyi*. Width and shape of distal lobe rather variable in both species and thus not significant. Parameres as in *H. phassilyi*. The aedeagus of *H. canakcioglu* differs in the long, flagellum-like distal lobe.

**VARIABILITY:** The pronotal lateral margin varies from yellowish to black. The elytral rows of punctures vary from almost regular to distinctly irregular. Elytra subbasally impressed in some of the specimens from Euboea (Greece).

**DISTRIBUTION:** Yugoslavia (Crna Gora), Greece (except Peloponnes), Turkey (Kirklareli, Balikesir, Çanakkale, Muğla).

**ETYMOLOGY:** The new species and its allies are usually distinctly bicoloured.

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