

Supplementary Tab. 1. Environmental variables recorded for each date in the Apulian sites where *Neolovenula alluaudi* was collected.

| Code | Date | Pond typology | Water temperature (°C) | Water pH | Water conductivity (µS/cm) | Dissolved oxygen (mg/L) | Oxygen (%) | TDS | Turbidity (cm) | Depth (cm) |
|--------------|-------------------|---------------|------------------------|----------|----------------------------|-------------------------|------------|--------|----------------|------------|
| <i>PU042</i> | <i>21/05/2004</i> | H | n.m. | n.m. | n.m. | n.m. | n.m. | n.m. | n.m. | n.m. |
| <i>PU042</i> | <i>19/01/2008</i> | H | n.m. | n.m. | n.m. | n.m. | n.m. | n.m. | n.m. | n.m. |
| PU042 | 23/02/2011 | H | 7.20 | 7.80 | 212 | 7.80 | 71.90 | 104 | 84.0 | 50.00 |
| <i>PU047</i> | <i>03/02/2007</i> | H | n.m. | n.m. | n.m. | n.m. | n.m. | n.m. | n.m. | n.m. |
| PU047 | 20/03/2012 | H | 18.48 | 8.70 | 205 | 8.11 | 91.70 | 103.00 | 30.00 | 46.00 |
| PU047 | 13/04/2012 | H | 12.64 | 9.36 | 145 | 6.74 | 71.00 | 72.00 | 57.00 | >100.00 |
| <i>PU048</i> | <i>03/02/2007</i> | H | n.m. | n.m. | n.m. | n.m. | n.m. | n.m. | n.m. | n.m. |
| PU048 | 20/03/2012 | H | 19.25 | 8.84 | 293 | 9.50 | 112.00 | 147.00 | 20.00 | 51.00 |
| PU048 | 13/04/2012 | H | 12.13 | 8.72 | 313 | 6.34 | 66.20 | 156.00 | 38 | >100.00 |
| PU126 | 11/11/2010 | T | 16.80 | 7.87 | 355 | 0.8 | 10.5 | 178 | 26.5 | >100.00 |
| PU126 | 03/05/2012 | T | 25.20 | 8.39 | 824 | 4.98 | 62.10 | 413 | >100 | 45 |
| PU167_I | 12/03/2012 | T | 5.95 | 8.61 | 315 | 6.72 | 60.00 | 158.00 | 18.00 | >100.00 |
| PU167_I | 03/04/2012 | T | 14.18 | 9.27 | 246 | 6.51 | 69.50 | 123.00 | 20.00 | >100.01 |
| PU167_II | 12/03/2012 | H | n.m. | n.m. | n.m. | n.m. | n.m. | n.m. | n.m. | n.m. |
| PU167_II | 03/04/2012 | H | 15.47 | 8.53 | 523 | 6.97 | 76.70 | 262.00 | 3.00 | 35.00 |
| PU168 | 30/03/2011 | T | 11.25 | 7.94 | 100 | 4.69 | 46.20 | 50.00 | 5.00 | >100.00 |
| <i>PU168</i> | <i>12/03/2012</i> | T | 5.11 | 8.30 | 131 | 6.90 | 61.00 | 67.00 | 5.00 | 30.00 |
| <i>PU168</i> | <i>20/03/2012</i> | T | 19.00 | 7.40 | 190 | 2.80 | 32.00 | 95.00 | 9.00 | 57.00 |
| <i>PU168</i> | <i>27/03/2012</i> | T | 11.67 | 7.55 | 226 | 0.30 | 3.00 | 113.00 | 31.00 | 48.00 |
| <i>PU168</i> | <i>03/04/2012</i> | T | 13.11 | 7.63 | 255 | 3.45 | 35.50 | 127.00 | 64.00 | 35.00 |
| <i>PU168</i> | <i>13/04/2012</i> | T | 12.10 | 7.56 | 263 | 1.77 | 17.20 | 132.00 | 84.00 | 32.00 |
| PU168 | 26/04/2012 | T | 27.46 | 7.97 | 218 | 7.98 | 108.80 | 109.00 | 25.00 | 28.00 |
| PU170 | 25/02/2011 | H | 4.54 | 11.15 | 190 | 7.93 | 67.40 | 93 | 2.00 | >100.00 |
| <i>PU170</i> | <i>12/03/2012</i> | H | 6.66 | 8.18 | 220 | 4.06 | 37.00 | 110.00 | 3.00 | >100.00 |
| <i>PU170</i> | <i>20/03/2012</i> | H | 13.89 | 7.76 | 227 | 4.51 | 47.00 | 116.00 | 7.00 | >100.00 |
| PU170 | 27/03/2012 | H | 13.20 | 7.74 | 230 | 3.52 | 36.00 | 115.00 | 4.00 | >100.00 |
| PU170 | 03/04/2012 | H | 12.56 | 7.87 | 243 | 4.65 | 47.00 | 121.00 | 12.00 | >100.00 |
| PU170 | 26/04/2012 | H | 26.53 | 8.22 | 259 | 6.46 | 85.70 | 130.00 | 34.00 | >100.00 |

TDS, total dissolved solids; H, long hydroperiod pond; n.m., not measured; T, temporary pond.

Sites and dates in italics refer to the samples where adult specimens of *Neolovenula alluaudi* were not detected.

Supplementary Tab. 2. List of documented countries, geographical areas and sites where *Neolovenula alluaudi* has been reported, with corresponding references.

| Location | References |
|---|---|
| North Africa and Middle East (from West to East) | |
| Spain: Canary islands (the Eastern ones) | Guerne and Richard, 1890, 1891, 1896; Schmeil, 1898; Giesbrecht and Schmeil, 1898; Gauthier, 1933a, 1933b, 1938; Margalef, 1953; Kiefer, 1958a, 1978; Damian-Georgescu, 1966; Naidenow, 1966; Dussart, 1967, 1989; Brtek, 1977; Dussart and Defaye, 1983; Bowman, 1989; Borutzky <i>et al.</i> , 1991; Rayner, 1999; Dussart and Defaye, 2002; Boxshall and Halsey, 2004; Garcia <i>et al.</i> , 2009 |
| Lanzarote: Téguise = <i>locus typicus</i> | Guerne and Richard, 1890 (L); Schmeil, 1898 (L) |
| Fuerteventura: La Oliva | Guerne and Richard, 1891 (L) |
| Several localities in Lanzarote, Fuerteventura, Alegranza | Bowman, 1989 (M) |
| Lanzarote: Jameos del Agua | Garcia <i>et al.</i> , 2009 (L) |
| North Africa | Margalef, 1953; Brtek, 1977; Dussart and Defaye, 1983, 2002; Borutzky <i>et al.</i> , 1991 |
| Sahara | Dussart and Defaye, 2002 |
| Western Sahara | Dumont and Van Den Velde, 1975; Dumont, 1979; Dussart, 1989 |
| Rio de Oro: Guelta Zemmur | Dumont and Van Den Velde, 1975 (L); Dumont, 1979 (L)(M); Dussart, 1989 (M) |
| Morocco | François, 1949; Rose and Vaissière, 1952-53; Brehm, 1954; Kiefer, 1954, 1958a, 1978; Lépiney, 1961; Dussart, 1967, 1989; Brtek, 1977; Dumont and Decraemer, 1977; Dumont, 1979; Ramdani, 1988; Rayner 1999; Mouelhi <i>et al.</i> , 2000 |
| Aguelman N'Douit, Oued Mellah | François, 1949 (L); Lépiney, 1961 (L) |
| Bou Tazart, Skhirate | Brehm, 1954 (L) |
| Mehdia (= Mamora) | Kiefer, 1954 (L); Lépiney, 1961 (L) |
| Al Kansera | Kiefer, 1954 (L); Lépiney, 1961 (L); Dussart, 1967 (L), 1989 (M) |
| Jbel Bani | Lépiney, 1961 (L) |
| Casablanca | Dumont and Decraemer, 1977 (L); Dumont, 1979 (M); Dussart, 1989 (M) |
| Barrage Hassan-Addakhil, Barrage El Mansour-Eddahbi | Dumont, 1979 (L)(M); Dussart, 1989 (M) |
| Several nameless localities on map | Dussart, 1989 (M) |
| Mauritania | Gauthier, 1938; Dumont, 1979; Dussart, 1989 |
| Agâraktem | Gauthier, 1938 (L); Dussart, 1989 (M) |
| Foum 'n Meh (Voum N'Mouy) | Dumont, 1979 (L)(M); Dussart, 1989 (M) |
| Algeria | Daday, 1910; Gauthier, 1931, 1933a, 1933b, 1938; Kiefer, 1952, 1958a, 1958b, 1978; Brtek, 1977; Dumont, 1979; Miracle, 1982; Dussart, 1989; Mouelhi <i>et al.</i> , 2000; Dussart and Defaye, 2002; Cherbi <i>et al.</i> , 2008; Hamaidi <i>et al.</i> , 2010 |
| Hoggar: Ahetes | Gauthier, 1931 (L), 1938 (L) |
| Mouydir: Tahount Arak. Hoggar: Agelman, Amguid | Gauthier, 1931 (L) |
| Mouydir: Ig'elman Alegnenou | Gauthier, 1933a (L), 1938 (L) |
| Hoggar: Tassili n'Ajjer | Kiefer, 1958a, 1958b (L); Dumont, 1979 (L); Dussart, 1989 (L)(M) |
| Hoggar | Dumont, 1979 (L); Miracle, 1982 (L); Hamaidi <i>et al.</i> , 2010 (L) |

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| Hoggar: Adessei, Beibei, Edjif Mellène, Emeghra, Ighahar, Iherir, Imeleoulaouene, Oued Djerat, Oued Tabaraket, Oued Tesselate, Terhenânet, Tabancort (Chapuis) | Dumont, 1979 (L)(M) |
| Northern area (?) | Dumont, 1979 |
| Hoggar: several nameless localities on map | Dussart, 1989 (M) |
| Lake Djorf Torba | Cherbi <i>et al.</i> , 2008 (L) |
| Niger | Dumont, 1979; Dussart, 1989; Defaye <i>et al.</i> , 2000 |
| Aïr mountains: Agoum, Takolokouzett | Dumont, 1979 (L)(M); Dussart, 1989 (M) |
| Two nameless localities on map | Dussart, 1989 (M) |
| Aïr mountains: Auderas, Timia | Defaye <i>et al.</i> , 2000 (L) |
| Tunisia (?) | Brtek, 1977; Rayner, 1999, 2000 |
| Libya | Gurney, 1929; Gauthier, 1933a, 1933b, 1938; François, 1949; Brtek, 1977 |
| Cyrenaica: Al Marj (Merg) | Gurney, 1929 (L) |
| Cyrenaica | Gauthier, 1933a (A), 1933b (A), 1938 (A); François, 1949 (A) |
| Chad | Dussart, 1968, 1989; Dumont, 1979; Dussart and Defaye, 1983, 2002 |
| Ennedi: Arsa | Dussart, 1968 (L) |
| Ennedi: two localities on map | Dumont, 1979 (L)(M); Dussart, 1989 (M) |
| Egypt | Barrois, 1891; Richard, 1893; Poppe and Mrazek, 1895; Guerne and Richard, 1896; Giesbrecht and Schmeil, 1898; Ekman, 1904a; Daday, 1910; Kiefer, 1932, 1978; Gauthier, 1933b, 1938; Damian-Georgescu, 1966; Naidenow, 1966; Dussart, 1967; Brtek, 1977; Dumont, 1979; Dimentman and Por, 1985; Dussart, 1989; Rayner 1999; Dussart and Defaye, 2002; Dumont and El-Shabrawy, 2007 |
| Cairo-Giza, Saqqara, Tura | Barrois, 1891 (L); Richard, 1893 (L) |
| Cairo | Ekman, 1904a (L); Gauthier, 1938 (L); Kiefer, 1978 (L) |
| Nile delta | Dumont, 1979 (L)(M) |
| Sinai | Dimentman and Por, 1985; Dussart and Defaye, 2002; Boxshall and Halsey, 2004 |
| Sinai: several nameless localities on map. | Dimentman and Por, 1985 (L)(M) |
| Abu-Aweigila - Ruafa Dam | Dussart, 1989 (M) |
| Several nameless localities on map | Dumont and El-Shabrawy, 2007 (L) |
| Nile delta: Borullus lake | Por, 1984; Dimentman and Por, 1985; Dussart and Defaye, 2002; Boxshall and Halsey, 2004 |
| Israel | Dimentman and Por, 1985 (M) |
| Several nameless localities in the Negev area | Marrone, personal communication (L) |
| Golan heights | Dumont, 1979; Dimentman and Por, 1985 |
| Jordan | Dumont, 1979 (L)(M) |
| Two localities close to Wadi Dhuleil | Dumont, 1979 (L)(M) |
| Syria (?) | Dussart, 1967; Brtek, 1977 |
| Iran (?) | Borutzky <i>et al.</i> , 1991 |
| Europe (from West to East) | |
| Portugal | Guerne and Richard, 1896; Giesbrecht and Schmeil, 1898; Tollinger, 1911; Gauthier, 1933a, 1933b, 1938; François, 1949; Margalef, 1953; Kiefer, 1958a, 1978; Damian-Georgescu, 1966; Naidenow, 1966; Dussart, 1967; Brtek, 1977; Borutzky <i>et al.</i> , 1991; Rayner 1999; Dussart and Defaye, 2002; Boxshall and Halsey, 2004 |
| Cape Sagres | Guerne and Richard, 1896 (L); Tollinger, 1911 (M) |
| Nearby Coimbra | Margalef, 1953 (L) |
| Spain (mainland) | Kiefer, 1932, 1958a, 1978; Gauthier, 1933a, 1933b, 1938; François, 1949; Margalef, 1953, 1956; Ortiz, 1957; Naidenow, 1966; Dussart, 1967; Brtek, 1977; Miracle, 1982; Dimentman and Por, 1985; Alonso, 1998; Borutzky <i>et al.</i> , 1991; Rayner 1999; Dussart and Defaye, 2002; Boxshall and Halsey, 2004; Frisch <i>et al.</i> , 2006 |

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| Flix | Gauthier, 1938 (L); Margalef, 1953 (L) |
| Zamora province: La Tabla, Villarin de Campos, Vilafáfila | Margalef, 1956 (L) |
| La Zaida; Laguna Gallocanta | Ortiz, 1957 |
| Several nameless localities on map | Alonso, 1998 (L)(M) |
| Doñana | Frisch <i>et al.</i> , 2006 (L) |
| Spain (Balearic islands) | Jaume, 1989, 1989-1990; Pretus, 1989, 1991; Dussart and Defaye, 2002; Boxshall and Halsey, 2004 |
| Mallorca: Marina de Llucmajor, Llucmet Nou, Cas Garrigues, Cas Busso, S'Àguila de Torralís | Jaume, 1989 (L)(M) |
| Mallorca: Llucmajor, Betlem, Sa Casetà. | Pretus, 1991 (L)(M) |
| Menorca: several nameless localities on map, Corniola, Binillubet | Jaume 1989-90; Pretus, 1989 (L) |
| Menorca: Sa Mesquida | Damian-Georgescu, 1966; Naidenow, 1966 |
| Austria (?) | Naidenow, 1966; Brtek, 1977; Borutzky <i>et al.</i> , 1991 |
| Yugoslavia | Gauthier, 1933a, 1933b; François, 1949; Margalef, 1953; Dussart, 1967; Petkovski, 1983 |
| Balkans | Steuer, 1900a, 1900b; Tollinger, 1911; Gauthier, 1938; Kiefer, 1958a; Pljakic and Zivkovic, 1958; Petkovski, 1983; Sket, 1988; Ternjei and Stanković, 2007 |
| Croatia | Steuer, 1900a, 1900b (L)(M); Tollinger, 1911 (L)(M) |
| Hvar island | Pljakic and Zivkovic, 1958 (L); Petkovski, 1983 (L); Sket, 1988 (L); Ternjei and Stanković, 2007 (L) |
| Istria peninsula | Petkovski, 1983 (L); Sket, 1988 (L); Ternjei and Stanković, 2007 (L) |
| Krk island, Lošinj island | Present research |
| Italy | Present research |
| eight documented localities in the Apulia region | Daday, 1890; Guerne and Richard, 1891; Giesbrecht and Schmeil, 1898; Ekman, 1904b; Tollinger, 1911; Kiefer, 1927, 1932, 1958a, 1978; Gauthier, 1933a, 1933b, 1938; Margalef, 1953; Nógrády, 1956; Ponyi, 1956; Naidenow, 1966; Dussart, 1967, 1989; Brtek, 1977; Einsle, 1993; Rayner 1999; Borutzky <i>et al.</i> , 1991; Dussart and Defaye, 2002; Boxshall and Halsey, 2004 |
| Hungary | Daday, 1890 (L); Tollinger, 1911 (L)(M); Ponyi, 1956 (L) |
| Kecskemét, Széktó, Kisújszállás, Parád | Kiefer, 1927 (L) |
| Dömsöd | Margalef, 1953; Dussart, 1967 |
| Southern Hungary | Nógrády, 1956 (L) |
| Fülöpszállás | Ponyi, 1956 (L) |
| Kunszentmiklós, Dorozsma, Dorog, Nánás, | Brtek, 1977 (M) |
| Makó, Mezőcsát, Nyiregyháza, Hortobágy, | Brtek, 1977; Kiefer, 1978; Einsle, 1993; Dussart and Defaye, 2002; Boxshall and Halsey, 2004 |
| Farmos | Brtek, 1977 (L)(M) |
| Several nameless localities on map | Krmpotić, 1925; Petkovski, 1983 |
| Slovakia | Krmpotić, 1925 (L) |
| Marcelová, Chotín, Hurbanovo, Palárikovo, Králov Brod1, Králov Brod2, Tvrdošovce, Malý Horeš, Rad, Leles, Michalovce | Petkovski, 1983 (L) |
| Serbia | Steuer, 1900a, 1900b; Tollinger, 1911; Gauthier, 1938; Kiefer, 1958a, 1978; Pesce and Maggi, 1981; Petkovski, 1983; Rayner, 1992, 1999; Dussart and Defaye, 2002; Boxshall and Halsey, 2004 |
| Batajnica, Ugrinovci | Pesce and Maggi, 1981 |
| Banat area, Syrmia (Srem) area | Steuer, 1900a, 1900b (L); Gjorgewič, 1907 (L), Tollinger, 1911 (L); Petkovski, 1983 (L); Rayner, 1992 (L), 1999 (L); Dussart and Defaye, 2002 (L) |
| Greece | |
| Southern Greece | |
| Lake Ostrovosko (lake Vegoritida) | |

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| Crete | Pesce and Maggi, 1981 (A); Dussart and Defaye, 2002 (A); Boxshall and Halsey, 2004 | |
| Romania | Damian-Georgescu, 1966; Naidenow, 1966; Dussart, 1967; Brtek, 1977; Kiefer, 1978; Dimentman and Por, 1985; Rayner, 1992, 1999; Demeter and Marrone, 2009 | |
| Lake Gălățui | Damian-Georgescu, 1966 (L)(M); Rayner, 1992 (L), 1999 (L) | |
| Iași | Damian-Georgescu, 1966 (L)(M) | |
| Bulgaria | Chichkoff, 1906, 1909, 1924; Tollinger, 1911; Gauthier, 1938; Kiefer, 1958a, 1978; Damian-Georgescu, 1966; Naidenow, 1966, 1973; Brtek, 1977; Petkovski, 1983; Borutzky <i>et al.</i> , 1991; Rayner 1999; Chichkoff 1906 (L), 1909 (A), 1924 (L); Tollinger, 1911 (A); Naidenow, 1966 (L) | |
| Razgrad area | Chichkoff, 1924 (L); Naidenow, 1966 (L) | |
| Vidin | Naidenow, 1973 (M); Petkovski, 1983 (A) | |
| Bulgaria NE, Ludogorie region (Deliorman) | Kiefer, 1978; Ustaoğlu, 2004; Ustaoğlu, personal communication | |
| Turkey | Kiefer, 1978 (A); Ustaoğlu, personal communication (A) | |
| Trace | Borutzky <i>et al.</i> , 1991; Dussart and Defaye, 2002; Boxshall and Halsey, 2004 | |
| Moldavia (?) | Ekman, 1904b; Gauthier, 1933a, 1933b, 1938; Ulomsky, 1941; Kiefer, 1978; Dussart, 1989; Borutzky <i>et al.</i> , 1991; Zaitsev and Alexandrov, 1998; Dussart and Defaye, 2002; Boxshall and Halsey, 2004; Samchyshyna, 2008, 2011 and references therein; Samchyshyna, personal communication | |
| Ukraine | Ekman, 1904b (A); Gauthier, 1933a (A), 1933b (A), 1938 (A) | |
| Galicia (Eastern Europe) | Kiefer, 1978 (A); Dussart, 1989 (A) | |
| Crimea | Ulomsky, 1941 (A); Borutzky <i>et al.</i> , 1991 (A); Samchyshyna, personal communication (A) | |
| Crimea, Kara Dag Mountain | Borutzky <i>et al.</i> , 1991 (A), Samchyshyna, personal communication (A) | |
| Mykolaiv oblast | Borutzky <i>et al.</i> , 1991 (A) | |
| Kherson oblast | Samchyshyna, personal communication (A) | |
| Lower Danube river, Dnipropetrovsk oblast, Odessa oblast, Snihurivka, Ialpul river, Great Katlabug river | Azov and Black sea coasts | Samchyshyna, 2011 (A) |
| South-Western Russia and Central Asia | Gauthier, 1938; Brtek, 1977; Borutzky <i>et al.</i> , 1991; Dussart and Defaye, 2002; Yevdokimov and Yermokhin, 2009; Samchyshyna, personal communication | |
| Russia | Dussart and Defaye, 2002; Boxshall and Halsey, 2004 | |
| Southern Russia | Samchyshyna, personal communication (L) | |
| Krivorozh'e | Borutzky <i>et al.</i> , 1991 (L) | |
| Rostov, Volvodgrad, Chelyabinsk oblast | Gauthier, 1938 (L); Brtek, 1977 (L) | |
| Troick | Yevdokimov and Yermokhin, 2009 (L) | |
| Saratov oblast | Borutzky <i>et al.</i> , 1991 (L) | |
| Turkmenistan: Kyzyl Arvat (Serdar) | ?, doubtful record, not supported by precise geographical references; A, record providing location at low scale; L, record providing precise location; M, record accompanied by distribution map; NE, north-east. | |

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