

## **PROFORMICA**

- aerea*. *Formica aerea* Roger, 1859: 237 (w.) GREECE.  
Combination in *Cataglyphis*: Mayr, 1861: 45 (in key); Mayr, 1863: 402;  
combination in *Formica*: Mayr, 1863: 460;  
combination in *Myrmecocystus*: Emery & Forel, 1879: 449.  
Junior synonym of *Cataglyphis cursor*: Mayr, 1861: 45 (in key); Mayr, 1863: 402;  
André, 1874: 202 (in list).  
Status as species: Roger, 1861b: 164; Roger, 1863b: 13, 47; Mayr, 1863: 460.  
Junior synonym of *nasuta*: Emery & Forel, 1879: 449; Emery, 1880: 390 (footnote);  
Dalla Torre, 1893: 201; Ruzsky, 1905b: 421; Wheeler, W.M. 1913f: 543; Emery, 1925b:  
244; Agosti & Collingwood, 1987a: 61; Bolton, 1995b: 368.
- alaica*. *Proformica alaica* Kuznetsov-Ugamsky, 1926a: 72, figs. 6-11 (w.) KYRGYZSTAN.  
**Status as species**: Kuznetsov-Ugamsky, 1928a: 11; Bolton, 1995b: 368.
- alpina*. *Proformica nitida* var. *alpina* Kuznetsov-Ugamsky, 1927b: 26 (w.) KYRGYZSTAN.  
Kuznetsov-Ugamsky, 1928a: 22 (m.).  
Subspecies of *nitida*: Kuznetsov-Ugamsky, 1928a: 22.  
Junior synonym of *nitida*: Dlussky, 1969a: 222; Tarbinsky, 1976: 166; Bolton, 1995b:  
368.
- barbatula*. *Proformica nasuta* n. *barbatula* Arnol'di, 1948: 212 (in list). *Nomen nudum*.
- buddhaensis*. *Proformica mongolica* subsp. *buddhaensis* Ruzsky, 1915a: 432 (w.) CHINA  
(Tibet).  
Dlussky, 1969a: 226 (m.).  
**Subspecies of *mongolica***: Emery, 1925b: 243; Kuznetsov-Ugamsky, 1928a: 8; Chapman  
& Capco, 1951: 198.  
**Status as species**: Dlussky, 1969a: 226 (redescription); Pisarski, 1969b: 307; Pisarski &  
Krzysztofiak, 1981: 161; Bolton, 1995b: 368; Guénard & Dunn, 2012: 38.  
**Senior synonym of *lefevrei***: Dlussky, 1969a: 226; Bolton, 1995b: 368.
- caucasea*. *Cataglyphis (Paraformica) caucasea* Santschi, 1925g: 353 (w.) GEORGIA.  
[Misspelled as *caucasica* by Karavaiev, 1926e: 199, Kuznetsov-Ugamsky, 1928a: 8.]  
Combination in *Paraformica*: Karavaiev, 1926e: 199;  
combination in *Formica (Proformica)*: Santschi, 1926f: 293;  
combination in *Proformica (Paraformica)*: Kuznetsov-Ugamsky, 1928a: 8;  
combination in *Proformica*: Arnol'di & Dlussky, 1978: 554.  
**Status as species**: Karavaiev, 1926e: 199; Santschi, 1926f: 293; Arnol'di & Dlussky,  
1978: 554 (in key); Agosti, 1990b: 1498; Bolton, 1995b: 368; Gratiashvili & Barjadze,  
2008: 134; Borowiec, L. 2014: 150.
- chelmosensis*. *Proformica chelmosensis* Lebas & Galkowski, 2019a: 220, figs. 2-4 (w.q.m.)  
GREECE.
- coriacea*. *Proformica coriacea* Kuznetsov-Ugamsky, 1927b: 26, fig. 1 (s.w.) UZBEKISTAN.  
Dlussky, 1969a: 229 (q.).  
**Status as species**: Kuznetsov-Ugamsky, 1928a: 12; Dlussky, 1969a: 229 (redescription);  
Pisarski, 1969b: 307; Tarbinsky, 1976: 173 (redescription); Bolton, 1995b: 368; Schultz,  
R. et al. 2006: 205; Collingwood & Heatwole, 2000: 15; Guénard & Dunn, 2012: 38.  
**Senior synonym of *frigida***: Dlussky, 1969a: 229; Tarbinsky, 1976: 173; Bolton, 1995b:  
368.
- depilis*. *Formica (Proformica) nasuta* var. *depilis* Santschi, 1925g: 353 (w.) FRANCE.

Subspecies of *nasuta*: Santschi, 1932c: 73; Ceballos, 1956: 319.

Status as species: Collingwood & Yarrow, 1969: 86; Collingwood, 1978: 92 (in key).

Junior synonym of *nasuta*: Espadaler & Cagniant, 1987: 136; Bolton, 1995b: 368; Casevitz-Weulersse & Galkowsky, 2009: 486; Galkowski, *et al.* 2017: 13.

*deserta* Kuznetsov-Ugamsky, 1926; see under **CATAGLYPHIS**.

**dolichocephala**. *Proformica dolichocephala* Kuznetsov-Ugamsky, 1927b: 27, figs. 6-8 (s.) KAZAKHSTAN.

**Status as species**: Kuznetsov-Ugamsky, 1928a: 15; Bolton, 1995b: 368; Collingwood & Heatwole, 2000: 15; Guénard & Dunn, 2012: 38.

**epinotalis**. *Proformica epinotalis* Kuznetsov-Ugamsky, 1927b: 27, figs. 2-4 (s.w.) KAZAKHSTAN.

Dlussky, 1969a: 227 (q.m.).

**Status as species**: Kuznetsov-Ugamsky, 1928a: 17; Dlussky, 1969a: 226 (redescription); Tarbinsky, 1976: 175 (redescription); Arnol'di & Dlussky, 1978: 554 (in key); Dlussky, 1981a: 17; Dlussky, Soyunov & Zabelin, 1990: 141; Kupyanskaya, 1990: 206; Radchenko, 1994b: 115 (in key); Bolton, 1995b: 368; Dubovikoff, 2005b: 191 (in key); Schultz, R. *et al.* 2006: 205; Paknia, *et al.* 2010: 34; Borowiec, L. & Salata, 2012: 532; Guénard & Dunn, 2012: 38; Borowiec, L. 2014: 150; Radchenko, 2016: 322.

**ferreri**. *Proformica ferreri* Bondroit, 1918: 41 (w.m.) SPAIN.

Wheeler, G.C. & Wheeler, J. 1982: 176 (l.).

**Subspecies of nasuta**: Santschi, 1919e: 246; Menozzi, 1922b: 332; Emery, 1925b: 244; Santschi, 1931a: 13; Ceballos, 1956: 319.

**Status as species**: Bernard, 1967: 285 (redescription); Collingwood & Yarrow, 1969: 87; Collingwood, 1978: 93 (in key); Bolton, 1995b: 368; Collingwood & Prince, 1998: 27 (in key); Casevitz-Weulersse & Galkowsky, 2009: 486; Borowiec, L. 2014: 150; Lebas, *et al.* 2016: 240.

**flavosetosa**. *Formica (Proformica) flavosetosa* Viehmeyer, 1922: 215 (w.) CHINA (Sichuan).

Combination in *Proformica*: Bolton, 1995b: 368.

**Status as species**: Emery, 1925b: 243; Kuznetsov-Ugamsky, 1928a: 8; Wheeler, W.M. 1930h: 81; Eidmann, 1941: 26; Chapman & Capco, 1951: 197; Bolton, 1995b: 368; Guénard & Dunn, 2012: 38.

*frigida*. *Proformica frigida* Dlussky, 1965b: 28 (w.) KYRGYZSTAN.

Junior synonym of *coriacea*: Dlussky, 1969a: 229; Tarbinsky, 1976: 173; Bolton, 1995b: 368.

**jacoti**. *Formica (Proformica) jacoti* Wheeler, W.M. 1923b: 4 (w.) CHINA (Beijing).

Wheeler, W.M. 1929f: 11 (q.).

Combination in *Proformica*: Dlussky, 1969a: 230.

**Status as species**: Emery, 1925b: 243; Wheeler, W.M. 1927d: 12; Kuznetsov-Ugamsky, 1928a: 8; Wheeler, W.M. 1929f: 11; Wheeler, W.M. 1930h: 81; Chapman & Capco, 1951: 197; Dlussky, 1969a: 230 (redescription); Pisarski & Krzysztofiak, 1981: 161; Bolton, 1995b: 368; Wu, J. & Wang, 1995: 148; Guénard & Dunn, 2012: 38.

**kaszabi**. *Proformica kaszabi* Dlussky, 1969a: 228, fig. 4(19) (w.) KYRGYZSTAN, MONGOLIA.

[Misspelled as *kassabi* by Tarbinsky, 1976: 172.]

Tarbinsky, 1976: 172 (m.).

**Status as species:** Tarbinsky, 1976: 172 (redescription); Agosti & Collingwood, 1987a: 60; Agosti & Collingwood, 1987b: 288 (in key); Bolton, 1995b: 368; Petrov, 2006: 114 (in key); Schultz, R. et al. 2006: 205; Guénard & Dunn, 2012: 38.

**kobachidzei.** *Proformica kobachidzei* Arnol'di, 1968: 1818, fig. 18 (w.) GEORGIA.

**Status as species:** Dlussky, 1969a: 224 (redescription); Aktaç, 1977: 128; Agosti & Collingwood, 1987a: 60; Agosti & Collingwood, 1987b: 288 (in key); Atanassov & Dlussky, 1992: 288; Bolton, 1995b: 368; Dubovikoff, 2005b: 191 (in key); Petrov, 2006: 114 (in key); Gratiashvili & Barjadze, 2008: 134; Lapeva-Gjonova, et al. 2010: 56; Kiran & Karaman, 2012: 15; Lebas, et al. 2016: 240; Borowiec, L. 2014: 150.

**korbi.** *Formica (Proformica) korbi* Emery, 1909b: 202 (w.q.) TURKEY.

Combination in *Proformica*: Dlussky, 1969a: 230.

**Status as species:** Wheeler, W.M. 1913f: 545 (redescription); Emery, 1925b: 243; Kuznetsov-Ugamsky, 1928a: 8; Dlussky, 1969a: 230 (redescription); Agosti & Collingwood, 1987a: 60; Agosti & Collingwood, 1987b: 287 (in key); Bolton, 1995b: 368; Petrov, 2006: 114 (in key); Lapeva-Gjonova, et al. 2010: 56; Guénard & Dunn, 2012: 38; Kiran & Karaman, 2012: 15; Borowiec, L. 2014: 150; Lebas, et al. 2016: 240.

**kosswigi.** *Acanthomyops (Donisthorpe) kosswigi* Donisthorpe, 1950d: 640 (w.) TURKEY.

Combination in *Proformica*: Bolton, 1995b: 368.

**Status as species:** Donisthorpe, 1950e: 1064; Bolton, 1995b: 368; Kiran & Karaman, 2012: 15; Borowiec, L. 2014: 150.

**kusnezowi.** *Formica (Proformica) kusnezowi* Santschi, 1928b: 43 (w.) UZBEKISTAN.

Combination in *Proformica*: Bolton, 1995b: 368.

**Status as species:** Bolton, 1995b: 368.

**lefevrei.** *Formica (Proformica) lefevrei* Wheeler, W.M. 1929f: 11 (w.) CHINA (Shandong).

Status as species: Wheeler, W.M. 1930h: 81; Chapman & Capco, 1951: 198.

Junior synonym of *buddhaensis*: Dlussky, 1969a: 226; Bolton, 1995b: 368.

**longipilosa.** *Proformica longipilosa* Galkowski, et al. 2017: 17, figs. 9-10 (s.w.q.) FRANCE.

**longiseta.** *Proformica longiseta* Collingwood, 1978: 74 (in list), 92 (in key) (w.) SPAIN; unavailable name.

[Unavailable name (published without designation of type-material).]

Status as species: Borowiec, L. 2014: 150 (error); Lebas, et al. 2016: 240 (error).

**menozzii** Santschi, 1923; see under **BAJCARIDRIS**.

**metalica.** *Proformica nasuta* var. *metalica* Kuznetsov-Ugamsky, 1923: 246 (w.) UZBEKISTAN.

**Subspecies of nasuta:** Bolton, 1995b: 368.

**mongolica.** *Formica nasuta* subsp. *mongolica* Emery, 1901i: 159 (w.) MONGOLIA.

Dlussky, 1969a: 225 (q.m.).

Combination in *Formica (Proformica)*: Emery, 1909b: 202;

combination in *Proformica*: Ruzsky, 1915a: 432.

**Status as species:** Emery, 1909b: 202; Wheeler, W.M. 1913f: 545 (redescription); Ruzsky, 1915a: 432; Emery, 1925b: 243; Ruzsky, 1925b: 44; Kuznetsov-Ugamsky, 1928a: 8; Ruzsky, 1936: 95; Dlussky, 1969a: 225 (redescription); Pisarski, 1969a: 232; Pisarski, 1969b: 307; Dlussky & Pisarski, 1970: 87; Tarbinsky, 1976: 169 (redescription); Arnol'di & Dlussky, 1978: 554 (in key); Pisarski & Krzysztofiak, 1981: 161; Radchenko, 1994b: 116 (in key); Bolton, 1995b: 368; Wu, J. & Wang, 1995: 148; Collingwood & Heatwole, 2000: 15; Radchenko, 2005b: 175; Schultz, R. et al. 2006: 205; Guénard & Dunn, 2012: 38.

- nasuta***. *Formica nasuta* Nylander, 1856b: 66 (w.) FRANCE.  
[Misspelled as *nasula* by Forel, 1909c: 105.]  
Forel, 1886f: 205 (q.); Ruzsky, 1903b: 304 (m.).  
Combination in *Cataglyphis*: Mayr, 1861: 45 (in key); Roger, 1863b: 12;  
combination in *Myrmecocystus*: Emery & Forel, 1879: 449;  
combination in *Formica (Proformica)*: Ruzsky, 1902d: 13; Emery, 1909b: 200;  
combination in *Proformica*: Emery, 1912f: 100; Ruzsky, 1915a: 433 (footnote);  
Bondroit, 1918: 40.  
Junior synonym of *Cataglyphis cursor*: Mayr, 1861: 45 (in key); Mayr, 1863: 402; Roger,  
1863b: 12; Dours, 1873: 166; André, 1874: 202 (in list); Mayr, 1877: 8; Mayr, 1880: 28.  
**Status as species:** Smith, F. 1858b: 6; Emery & Forel, 1879: 449; Emery, 1880: 390  
(footnote); André, 1882b: 177 (in key); Forel, 1886f: 205; Nasonov, 1889: 21; Forel,  
1892i: 307; Dalla Torre, 1893: 201; Ruzsky, 1896: 70; Ruzsky, 1902a: 232; Ruzsky,  
1902d: 13; Ruzsky, 1903b: 304; Forel, 1904b: 384; Ruzsky, 1905b: 421; Forel, 1906c:  
189; Emery, 1909b: 200; Forel, 1909c: 105; Karavaiev, 1912b: 588; Emery, 1912f: 100;  
Wheeler, W.M. 1913f: 543 (redescription); Bondroit, 1918: 40; Kuznetsov-Ugamsky,  
1923: 246; Emery, 1925b: 243; Santschi, 1925g: 353; Schkaff, 1925: 276; Santschi,  
1926f: 289; Karavaiev, 1927a: 303; Kuznetsov-Ugamsky, 1927b: 29 (in key);  
Kuznetsov-Ugamsky, 1928a: 18; Kuznetsov-Ugamsky, 1929b: 40; Stitz, 1930: 238;  
Santschi, 1932c: 73; Arnol'di, 1933b: 604 (in key); Karavaiev, 1935b: 108; Schmitz,  
1950: 14; Wellenius, 1955: 16; Ceballos, 1956: 319; Stumper, 1957: 87; Bernard, 1967:  
284 (redescription); Collingwood & Yarrow, 1969: 86; Dlussky, 1969a: 224  
(redescription); Báez & Ortega, 1978: 189; Collingwood, 1978: 93 (in key); Espadaler &  
Cagniant, 1987: 136; Agosti & Collingwood, 1987b: 288 (in key); Bolton, 1995b: 368;  
Espadaler, 1997b: 29; Collingwood & Prince, 1998: 27 (in key); Markó, Sipos, *et al.*  
2006: 69; Petrov, 2006: 114 (in key); Gratiashvili & Barjadze, 2008: 134; Casevitz-  
Weulersse & Galkowski, 2009: 486; Lapeva-Gjonova, *et al.* 2010: 56; Legakis, 2011:  
36; Borowiec, L. & Salata, 2012: 532; Guénard & Dunn, 2012: 38; Kiran & Karaman,  
2012: 15; Borowiec, L. 2014: 151 (see note in bibliography); Lebas, *et al.* 2016: 240;  
Galkowski, *et al.* 2017: 13 (redescription).  
**Senior synonym of *aerea*:** Emery & Forel, 1879: 449; Emery, 1880: 390 (footnote);  
Dalla Torre, 1893: 201; Ruzsky, 1905b: 421; Wheeler, W.M. 1913f: 543; Emery, 1925b:  
244; Agosti & Collingwood, 1987a: 61; Bolton, 1995b: 368.  
**Senior synonym of *depilis*:** Espadaler & Cagniant, 1987: 136; Bolton, 1995b: 368;  
Casevitz-Weulersse & Galkowski, 2009: 486; Galkowski, *et al.* 2017: 13.  
Current subspecies: nominal plus *metalica*, *syrdariana*.  
***nitida***. *Proformica nitida* Kuznetsov-Ugamsky, 1923: 246 (w.) KAZAKHSTAN.  
[Also described as new by Kuznetsov-Ugamsky, 1927b: 26.]  
**Status as species:** Kuznetsov-Ugamsky, 1928a: 20; Dlussky, 1962: 183; Dlussky, 1969a:  
222 (redescription); Tarbinsky, 1976: 166 (redescription); Agosti & Collingwood, 1987a:  
60; Agosti & Collingwood, 1987b: 288 (in key); Bolton, 1995b: 368; Petrov, 2006: 114  
(in key); Schultz, R. *et al.* 2006: 205; Legakis, 2011: 36; Borowiec, L. & Salata, 2012:  
532; Guénard & Dunn, 2012: 38; Nezhad, *et al.* 2012: 70; Borowiec, L. 2014: 151;  
Lebas, *et al.* 2016: 240.  
**Senior synonym of *alpina*:** Dlussky, 1969a: 222; Tarbinsky, 1976: 166; Bolton, 1995b:  
368.

**Senior synonym of *orites*:** Dlussky, 1969a: 222; Tarbinsky, 1976: 166; Bolton, 1995b: 368.

***oculatissima*.** *Formica oculatissima* Forel, 1886e: clxii (m.) GREECE.

Lebas & Galkowski, 2019b: 296 (w.).

Combination in *F. (Proformica)*: Emery, 1909b: 203;  
combination in *Proformica*: Agosti & Collingwood, 1987a: 61.

**Status as species:** Dalla Torre, 1893: 203; Wheeler, W.M. 1913f: 546 (redescription);  
Emery, 1925b: 244; Santschi, 1926f: 289; Kuznetsov-Ugamsky, 1928a: 8; Bolton, 1995b:  
368; Legakis, 2011: 36; Borowiec, L. & Salata, 2012: 532; Borowiec, L. 2014: 151;  
Lebas, *et al.* 2016: 240; Salata & Borowiec, 2018c: 48; Lebas & Galkowski, 2019b: 296  
(redescription).

***orites*.** *Formica (Proformica) nitida* var. *orites* Santschi, 1928b: 46.

Subspecies of *nitida*: Dlussky, 1962: 183.

Unnecessary replacement name for *alpina* Kuznetsov-Ugamsky: Dlussky, 1969a: 222.

Junior synonym of *nitida*: Dlussky, 1969a: 222; Tarbinsky, 1976: 166; Bolton, 1995b:  
368.

***ossetica*.** *Proformica ossetica* Dubovikoff, 2005b: 189, figs. 1-3, 6 (w.) RUSSIA (North Ossetia).

**Status as species:** Borowiec, L. 2014: 151.

***phoenica*.** *Proformica phoenica* Galkowski, *et al.* 2017: 13 (in text). *Nomen nudum* (attributed to  
Bernard).

***pilosiscapa*.** *Proformica pilosiscapa* Dlussky, 1969a: 228, figs. 2(6,13), 3(4), 4(2,6,7,9,14)  
(w.q.m.) BULGARIA, ARMENIA, GEORGIA, AZERBAIJAN.

Junior synonym of *caucasea*: Arnol'di & Dlussky, 1978: 554 (in key).

**Status as species:** Agosti & Collingwood, 1987a: 60; Agosti & Collingwood, 1987b: 288  
(in key); Atanassov & Dlussky, 1992: 290; Arakelian, 1994: 110; Bolton, 1995b: 368;  
Dubovikoff, 2005b: 190 (in key); Petrov, 2006: 114 (in key); Gratiashvili & Barjadze,  
2008: 135; Lapeva-Gjonova, *et al.* 2010: 56; Guénard & Dunn, 2012: 38; Kiran &  
Karaman, 2012: 15; Borowiec, L. 2014: 151.

***seraphimi*.** *Proformica (Proformica) seraphimi* Tarbinsky, 1970: 309, figs. 1-4 (w.q.)  
KYRGYZSTAN.

**Status as species:** Tarbinsky, 1976: 169 (redescription); Bolton, 1995b: 368; Schultz, R.  
*et al.* 2006: 205.

***similis*.** *Proformica similis* Dlussky, 1969a: 228, fig. 3(5) (w.q.) UZBEKISTAN.

**Status as species:** Bolton, 1995b: 368.

***splendida*.** *Proformica splendida* Dlussky, 1965b: 28 (w.) KYRGYZSTAN.  
TARBINSKY, 1976: 168 (m.).

**Status as species:** Dlussky, 1969a: 220 (redescription); Tarbinsky, 1976: 167  
(redescription); Bolton, 1995b: 368; Collingwood & Heatwole, 2000: 15; Schultz, R. *et  
al.* 2006: 205; Guénard & Dunn, 2012: 38.

***striaticeps*.** *Formica (Proformica) nasuta* var. *striaticeps* Forel, 1911d: 352 (w.) GREECE.

Combination in *Proformica*: Dlussky, 1969a: 224.

**Subspecies of *nasuta*:** Wheeler, W.M. 1913f: 544 (redescription); Emery, 1925b: 244;  
Kuznetsov-Ugamsky, 1928a: 8.

**Status as species:** Dlussky, 1969a: 224 (redescription); Agosti & Collingwood, 1987a:  
60; Agosti & Collingwood, 1987b: 288 (in key); Atanassov & Dlussky, 1992: 287;  
Bolton, 1995b: 368; Collingwood & Heatwole, 2000: 16; Petrov, 2006: 114 (in key);

Lapeva-Gjonova, *et al.* 2010: 56; Legakis, 2011: 36; Borowiec, L. & Salata, 2012: 532; Guénard & Dunn, 2012: 38; Kiran & Karaman, 2012: 15; Borowiec, L. 2014: 151; Bračko, *et al.* 2014: 20; Lebas, *et al.* 2016: 240; Salata & Borowiec, 2018c: 48.

***syrdariana*.** *Formica (Proformica) nasuta* var. *syrdariana* Santschi, 1928b: 45 (w.)  
KAZAKHSTAN.

Combination in *Proformica*: Bolton, 1995b: 368.

**Subspecies of *nasuta*:** Bolton, 1995b: 368.