

Digital supplementary material to

SEIFERT, B. & SCHULTZ, R. 2009: A taxonomic revision of the *Formica rufibarbis* FABRICIUS, 1793 group (Hymenoptera: Formicidae). – Myrmecological News 12: 255-272.

Appendix: Collecting data and material numbers, given in the following arrangement: locality, date, geographical coordinates in decimal format [in square brackets]. For samples without exact dates available, names of collectors are given to allow an approximate estimation of the collecting period.

***Formica rufibarbis* FABRICIUS, 1793**

74 samples with 232 workers were subject to a numeric analysis of 18 characters.

Austria: Schwarzach: 14.V.1994 [47.320° N, 13.139° E]. **Bosnia & Herzegovina:** Sutjeska N.P. (No. 004), 28.V.2003 [43.356° N, 18.692° E]; Sutjeska N.P. (No. 070), 6.VI.2003 [43.351° N, 18.690° E]; Sutjeska N.P. (No. 072), 6.VI.2003 [43.350° N, 18.690° E]. **Bulgaria:** Dobrostan, 10.IX.1982 [41.905° N, 24.925° E]. **Finland:** Luumäki, 12.VII.1996 [60.913° N, 27.380° E]; Sandvik (2 samples, No. 33, 35), 10.VII.1996 [60.280° N, 22.210° E]; Stormälo, 10.VII.1996 [60.250° N, 22.150° E]. **France:** Hospitalet, 19.IX.1998 [42.588° N, 1.794° E]; St. Martin Vesubie (No. 089), 13.V.2002 [44.086° N, 7.247° E]; St. Martin Vesubie (No. 108, type *rufibarbis*), 14.V.2002 [44.072° N, 7.295° E]. **Germany:** Badra, 27.V.1987 [51.430° N, 10.980° E]; Burkheim, 1.V.1993 [48.100° N, 7.600° E]; Dänkritz (4 samples, No. -, 016, 043, 204), 20.VII.1988/26.V.1992/27.V.1992 [50.770° N, 12.430° E]; Glewitz, 2.V.2000 [54.239° N, 13.321° E]; Grünz, 5.VI.2004 [53.264° N, 14.124° E]; Hauptmannsberg, 22.IV.2000 [53.307° N, 13.443° E]; Heilsberg, 25.VIII.1986 [50.776° N, 11.265° E]; Hellerau, 20.VIII.1992 [51.100° N, 13.730° E]; Isteiner Klotz, 4.V.1993 [47.670° N, 7.530° E]; Langenhessen, 28.V.1992 [50.770° N, 12.370° E]; Menzlin, 8.V.1999 [53.870° N, 13.631° E]; Niederhohndorf (2 samples, No. 081, 212), 26.V.1992 [50.750° N, 12.470° E]; Oberbergen, 2.V.1993 [48.110° N, 7.660° E]; Peenemünde, 5.V.2001 [54.148° N, 13.753° E]; Rohrdorf (No. g13), 9.V.1993 [47.740° N, 10.060° E]; Rohrdorf (No. g30), 8.V.1993 [47.717° N, 10.083° E]; Struck (2 samples, No. 021, 023), 5.VI.1999 [54.170° N, 13.693° E]; Tübingen (2 samples, No. 013, 073), 6.V.1993 [48.510° N, 9.010° E]; Untergrombach, 6.V.1990 [49.080° N, 8.550° E]; Vogtsburg, 3.V.1993 [48.100° N, 7.700° E]; Waren/Feißecksee, 27.VII.1988 [53.490° N, 12.710° E]. **Hungary:** Aggtelek, V.1998 [48.467° N, 20.517° E]. **Kazakhstan:** Manrak (No. 040), 22.VII.2001 [47.628° N, 84.063° E]; Manrak (No. 045), 22.VII.2001 [47.636° N, 84.064° E]; Manrak, (No. 351), 23.VII.2001 [47.633° N, 84.067° E]; Saur (2 samples, No. 274, 341), 24.VII.2001 [47.300° N, 85.617° E]; Saur (No. 064), 24.VIII.2001 [47.306° N, 85.545° E]; Saur (No. 068), 24.VII.2001 [47.294° N, 85.618° E]; Saur (No. 058), 24.VII.2001 [47.299° N, 85.412° E]; Saur (No. 273), 24.VII.2001 [47.300° N, 85.467° E]; Saur (No. 309), 23.VII.2001 [47.310° N, 84.460° E]; Saur (No. 318), 24.VII.2001 [47.300° N, 85.417° E]; Saur (No. 331), 25.VII.2001 [47.350° N, 85.517° E]; Tarbagatay (2 samples, No. 83, 316), 1.VIII.2001 [47.783° N, 81.767° E]; Tarbagatay (No. 153), 31.VII.2001 [47.360° N, 83.527° E]; Tarbagatay (No. 167), 2.VIII.2001 [47.781° N, 81.764° E]; Tarbagatay (No. 169), 2.VIII.2001 [47.782° N, 81.760° E]; Tarbagatay (No. 183), 4.VIII.2001 [47.075° N, 82.313° E]; Tarbagatay (No.328), 3.VIII.2001 [47.100° N, 82.317° E]. **Lebanon:** Chtoura, 5.VIII.1933 [33.817° N, 35.850° E]. **Russia:** Snezhinsk, 5.VII.1998 [55.933° N, 60.983° E]. **Sweden:** Högsrum, 13.VI.1992 [56.770° N, 16.670° E]; Kastlösa (2 samples, No. 44, 94), 12.VI.1992 [56.460° N, 16.480° E]; Stora Alvaret, 11.X.2000 [56.532° N, 16.525° E]. **Switzerland:** Bière, 18.V.1994 [43.540° N, 6.320° E]; Eglisau, 21.IV.2004 [47.580° N, 8.520° E]; Pfynwald (3 samples, No. g4, 72, 101), 16.V.1994 [46.300° N, 7.620° E]; Zürich (type *cinereorufibarbis*), before 1874 [47.37° N, 8.55° E, coordinates estimated]. **Turkey:** Iğdir, 21.VI.1993 [39.850° N, 44.090° E]; Tuzluca, 23.VI.1993 [40.050° N, 43.730° E].

***Formica cunicularia* LATREILLE, 1798**

85 samples with 307 workers were subject to a numeric analysis of 18 characters.

Armenia: Alages (type *fuscoides*, paratype *fuscoides*), 13.VI.1960 [40.33° N, 44.25° E, coordinates estimated]. **France:** Breil sur Roya (No. 001), 7.V.2002 [43.942° N, 7.518° E]; Breil sur Roya (No. 025), 8.V.2002 [43.951° N, 7.519° E]; Breil sur Roya (No. 038), 9.V.2002 [43.924° N, 7.484° E]; Corse (D 81) 5.VI.1985 [42.467° N, 8.683° E]; Fumel (neotype *cunicularia*), 25.VII.2008 [44.495° N, 0.960° E]; Galeria, 13.VI.1985 [42.410° N, 8.650° E]; Labergement-Sainte-Marie, 11.VII.1990 [46.770° N, 6.280° E]; Lac de L'Oriente, 5.VII.1974 [42.229° N, 9.058° E]; Orne, 1917 [48.81° N, 0.26° E, coordinates estimated]; Suartone, 6.VI.1975 [41.5° N, 9.25° E, coordinates estimated]; Timozzo, 5.VII.1974 [42.244° N, 9.067° E]; MNHN Paris (EY0000001658) [without date and location]. **Georgia:** Kazbergi (2 samples, No. 654, 644), 27.VII.1985/8.VIII.1985 [42.670° N, 44.580° E]; Mzcheta, 23.VII.1985 [41.840° N, 44.720° E]; Omalo (2 samples, 650, 653m), 31.VII.1985 [42.380° N, 45.630° E]. **Germany:** Burkheim, 1.V.1993 [48.100° N, 7.600° E]; Dänkritz, 27.V.1992 [50.770° N, 12.430° E]; Ebersbach (3 samples, No. 026, 076, 222), 24.V.1992 [51.190° N, 14.930° E]; Förstgen, 8.V.1994 [51.300° N, 14.640° E]; Griesheimer Düne, 29.IV.1993 [49.840° N, 8.590° E]; Heilsberg, 25.VIII.1986 [50.776° N, 11.265° E]; Isteiner Klotz, 4.V.1993 [47.670° N, 7.530° E]; Langenhessen (3 samples, No. 053, 054, 067), 28.V.1992 [50.770° N, 12.370° E]; Klein Schmölen, 4.VIII.1996 [53.123° N, 11.289° E]; Lubminer Heide, 14.VI.1998 [54.147° N, 13.647° E]; Neubrandenburg, 20.VI.1998 [53.596° N, 13.409° E]; Niederhohndorf (2 samples, No. 076, 084), 26.V.1992 [50.750° N, 12.470° E]; Rengersdorf (2 samples, No. 054, 234), 20.V.1992 [51.208° N, 14.892° E]; Rohr-

dorf, 8.V.1993 [47.717° N, 10.083° E]; Torga, 20.V.1992 [51.208° N, 14.910° E]; Trebbichau, 31.V.1987 [51.810° N, 12.010° E]; Vogtsburg, 3.V.1993 [48.100° N, 7.700° E]; Waren/Feissnecksee, 27.VII.1988 [53.490° N, 12.710° E]. **Great Britain:** Hartland Moor, 24.X.1991 [50.657° N, 2.092° W]. **Greece:** Agia Triada, 1.VI.2001 [40.500° N, 22.882° E]; Litochoro, 29.V.2001 [40.102° N, 22.562° E]; Nestos Delta (No. 1), 2004 [40.850° N, 24.800° E]. **Hungary:** Aggtelek (3 samples, No. 004, 005, 006), V.1998 [48.467° N, 20.517° E]. **Italy:** Baunei, 5.X.1972 [40.120° N, 9.510° E]; Camigliatello Silano (No. 003), 14.V.1999 [39.376° N, 16.441° E]; Camigliatello Silano (No. 005), 14.V.1999 [39.363° N, 16.456° E]; Camigliatello Silano (No. 023), 16.V.1999 [39.361° N, 16.430° E]; Firenze, 20.VII.1994 [43.783° N, 11.600° E]; Largo Arvo, 19.V.1994 [39.230° N, 16.500° E]; Mte. Limbara, 3.V.1994 [40.850° N, 9.180° E]; Sila Grande (No. 029), 17.V.1999 [39.392° N, 16.550° E]; Sila Grande (No. 049), 20.V.1999 [39.387° N, 16.559° E]; Sila Grande (No. 061b), 21.V.1999 [39.411° N, 16.553° E]. **Kazakhstan:** Manrak, 27.VII.2001 [47.317° N, 84.617° E]; Sarymobe (2 samples, No. 197a, 206), 5.VIII.2001 [47.130° N, 82.372° E]; Saur (No. 082), 25.VII.2001 [47.357° N, 85.518° E]; Tarbagatay (No. 160), 1.VIII.2001 [47.784° N, 81.754° E]; Tarbagatay (No. 306), 5.VIII.2001 [47.133° N, 82.367° E]; Tarbagatay (No. 338), 1.VIII.2001 [47.783° N, 81.767° E]. **Portugal:** Porto Covo, 15.III.2002 [37.839° N, 8.788° W]. **Russia:** Kursk steppe, 17.VII.1999 [51.750° N, 36.167° E]. **Spain:** Veleta S, 10.V.1991 [37.060° N, 3.360° W]. **Switzerland:** Pfywald (No. g21) 16.V.1994 [46.300° N, 7.620° E]; Vaux (cotype *rubescens*), [46.540° N, 6.470° E, coordinates estimated]. **Turkey:** Catak, 18.VI.1993 [39.500° N, 43.010° E]; Dagpinar, 23.VI.1993 [40.470° N, 43.330°]; Dirimli Gecidi, 22.V.1993 [36.870° N, 29.580° E]; Dranoz, 3.VII.1993 [41.640° N, 34.840° E]; Kabali, 3.VII.1993 [41.800° N, 35.050° E]; Ödemis (No. 870), 19.V.1993 [38.350° N, 27.880° E]; Sac Gecidi, 22.VI.1993 [39.800° N, 42.510° E]; Sarigöl (No. 1177), 28.VI.1993 [41° N, 41.5° E, coordinates estimated]; Sogukpinar (2 samples, No. 1229, 1238), 6.VII.1993 [40.060° N, 29.120° E]; Stranga Mts., 10.V.2003 [41.468° N, 27.375° E]. **Ukraine:** Jalta, 16.VIII.1995 [44.450° N, 34.050° E]; Manhup-Kale, 12.VIII.1995 [44.617° N, 33.867° E].

***Formica clara* FOREL, 1886**

199 samples with 734 workers were subject to a numeric analysis of 18 characters.

Azerbaijan: Mingacevir, 1.VI.2006 [40.743° N, 47.114° E]. **Bulgaria:** Obsor 1.VIII.1979 [42.820° N, 27.880° E]. **China:** Boro-Horo (No. 115), 18.VII.2006 [43.838° N, 85.358° E]; Boro-Horo (No. 186), 22.VII.2006 [43.964° N, 85.180° E]; glacier No. 1 (No. 036), 28.VIII.2004 [43.588° N, 87.198° E]; glacier No. 1 (No. 038), 28.VIII.2004 [43.559° N, 87.198° E]; Halamuyan Zhan vall. (3 samples, No. 221, 222, 227), 23.IX.2004 [43.859° N, 88.175° E]; Tjanchi (No. 255), 26.IX.2004 [43.937° N, 88.106° E]; Tjanchi (No. 257), 26.IX.2004 [43.936° N, 88.106° E]; Tjanchi (No. 262), 26.IX.2004 [43.936° N, 88.105° E]; Tjanchi E (2 samples, No. 246, 247), 25.IX.2004 [43.953° N, 88.201° E]; Tjanchi S (No. 170), 19.IX.2004 [43.872° N, 88.141° E]; Urumqi (No. 002a), 1.IX.2003 [43.800° N, 87.583° E]; Urumqi (No. 111), 17.VII.2006 [43.764° N, 87.617° E]; Urumqi (No. 141a), 17.IX.2004 [43.765° N, 87.611° E]; Urumqi (No. 245), 24.VII.2006 [43.768° N, 87.621° E]; NW China, 1991, [leg. Heatwole, exact location not available]. **Cyprus:** Limassol, 29.III.1999 [34.9° N, 32.9° E, coordinates estimated]. **Czech Republic:** Chomutov, 2007 [50.568° N, 13.565° E]. **Finland:** Luumäki (2 samples, No. 24, 34), 12.VII.1996 [60.913° N, 27.380° E]; Sandvik (4 samples, No. 16, 30, 136, 160), 10.VII.1996 [60.280° N, 22.210° E]; Stormälo (2 samples, No. 20, 39), 10.VII.1996 [60.250° N, 22.150° E]. **France:** Font-Romeu, 24.VI.1999 [42.500° N, 2.080° E]. **Georgia:** Tbilisi (No. 660), 21.VII.1985 [41.810° N, 44.790°]; Tbilisi (No. 661), 20.VII.1985 [41.688° N, 44.808° E]. **Germany:** Förstgen (6 samples, No. 88, type *lusatica*, A1, 12, 59, 94, 127), 19.VI.1994 [51.300° N, 14.640° E]; Gartz, 5.VIII.1987 [53.210° N, 14.380° E]; Halbendorf (3 samples, No. 041, 094, 12), 16.V.1992/30.VII.1992 [51.290° N, 14.530° E]; Halbendorf (No. 095), 16.V.1992 [51.300° N, 14.530° E]; Hiddensee, IX.2000 [54.157° N, 13.816° E]; Ingelheim, 2001 [49.970° N, 8.050° E]; Jänkendorf (5 samples, No. g2, g13, g19, 76, 208), 2.VIII.1992 [51.270° N, 14.800° E]; Jänkendorf (No. 85), 2.VIII.1992 [51.280° N, 14.790° N]; Klotzsche, 18.VIII.1992 [51.090° N, 13.780° E]; Leutra (3 samples, No. g3, g5, g31), 19.VII.1993 [50.870° N, 11.570° E]; Lodenu, 18.IX.1992 [51.360° N, 14.960° E]; Münsingen, 31.VII.2008 [48.426° N, 9.577° E]; Münsingen, 29.IX.2008 [48.447° N, 9.532° E]; Oberbergen (3 samples, No. 6, 11, 143), 2.V.1993 [48.110° N, 7.660° E]; Peenemünde, 5.V.2001 [54.157° N, 13.816° E]; Rothenburg (3 samples, No 41, 72, 103), 10.VII.1993 [51.350° N, 14.970° E]; Rotschönberg, 16.V.1993 [51.2° N, 13.5° E, coordinates estimated]; Sasbachwalden (4 samples, No. g27, 65, 86, g89), 30.IV.1993 [48.610° N, 8.160° E]; Schönecken, 1.V.1990 [50.165° N, 6.475° E]; Wüstermarke, 25.VIII.1984 [51.820° N, 13.600° E]. **Greece:** Elis (2 samples), 16.VII.1996/6.VIII.1996 [37.900° N, 21.410° E]; Nestos Delta (No. 2), 2004 [40.850° N, 24.800° E]. **Hungary:** Hortobagy, V.1998 [47.583° N, 21.167° E]. **India:** Fagu (2 samples, No. 385, 389), 29.IX.1996 [31.127° N, 77.332° E]; Jari (2 samples, No. 490, 491), 3.X.1996 [32° N, 77.3° E, coordinates estimated]; Kalath (No. 440, 446), 2.X.1996 [32.2° N, 77.2° E, coordinates estimated]; Kasol (3 samples, No. 472, 476, 483), 3.X.1996 [32.020° N, 77.320° E]; Rothang La Pass (2 samples, No. 433, 458), 1./2.X.1996 [32.346° N, 77.217° E]; Spiti vall., 15.VII.1994 [32.083° N, 78.217° E]; Theog, 29.IX.1996 [31.142° N, 77.393° E]; Yourdu, 16.VII.1980 [33.42° N, 75.77°, coordinates estimated]. **Iran:** Alam kola forest, 22.VI.2008 [36.550° N, 51.801° E]; Astaneh, 2005 [37.267° N, 49.667° E]; Baba Aman, 22.X.2004 [37.467° N, 57.317° E]; Babolsar, 2005 [36.700° N, 52.633° E]; Bojnourd (2 samples), III.2004, 24.VII.2004 [37.500° N, 57.317° E]; Chabokar, 3.VII.2008 [36.950° N, 50.550° E]; Dimeh, 8.VIII.1973 [32.483° N, 50.267° E]; Firozeeh, 2.VI.2005 [37.483° N, 57.267° E]; Ganznameh, 4.VII.1974 [34.733° N, 48.500° E]; Ghaemshahr, 3.VI.2008 [36.371° N, 52.850°]; Golestan N.P. (2 samples, forest and canyon), 14.V.2007 [37.367° N, 55.817° E]; Gorgan, 11.V.2006 [36.767° N, 54.367° E]; Hamsheh-kola, 19.VII.1973 [36.500° N, 52.517° E]; Khoshyelagh, 10.VI.2007 [36.783° N, 55.350° E]; Kuhrang, 19.VI.1974 [32.457° N, 50.133° E]; Mamraz dasht, 23.VI.2008 [36.539° N, 51.853° E]; Noor, 3.VI.2005 [36.555° N, 51.950° E]; Shahrood, 7.V.2008 [36.418° N, 54.961° E]; Sisangan park, 24.VI.2008 [36.576° N, 51.813° E]; Tehran, Avadj, 27.VII.1973 [35.633° N, 49.217° E]; Tehran, Delichal, 24.VII.1973 [35.667° N, 52.500° E]; Tehran, Feruzkuh, 24.VII.1973 [35.717°

N, 52.667° E]; Tehran, Shemshak, 27.VIII.1973 [36.017° N, 51.483° E]; 2007/12 [without location]. **Kazakhstan:** Aksu Canyon, 31.VII.1998 [42.332° N, 70.375° E]; Almaty/Medeo (2 samples), 30.VIII.2006, X.2006 [43.518° N, 77.059° E]; Dshungarsky Alatau, 8.VIII.2001 [45.248° N, 80.288° E]; Dzhabagly, 2.VIII.1998 [42.408° N, 70.583° E]; Kalichan, 26.VII.2001 [47.964° N, 85.061° E]; Karaganda, 4.IX.2006 [49.833° N, 73.167° E]; Kenbirlik, 26.VII.2001 [47.682° N, 84.961° E]; Kyrgysky Alatau, 3.VIII.1998 [42.781° N, 71.226° E]; Manrak (No. 115), 27.VII.2001 [47.323° N, 84.622° E]; Manrak (No. 122), 27.VII.2001 [47.321° N, 84.617° E]; Saisan (No. 050), 23.VII.2001 [47.466° N, 84.878° E]; Saisan (No. 113), 27.VII.2001 [47.467° N, 84.873° E]; Sarymobe (No. 186), 4.VIII.2001 [47.119° N, 82.371° E]; Sarymobe (No. 190a), 4.VIII.2001 [47.127° N, 82.369° E]; Saur (No. 075b), 24.VII.2001 [47.294° N, 85.618° E]; Saur (No. 089), 25.VII.2001 [47.357° N, 85.518° E]; Saur, Matagul, 28.VII.2001 [47.049° N, 84.915° E]; Tarbagatay (No. 023), 20.VII.2001 [47.274° N, 80.808° E]; Tarbagatay (No. 025), 20.VII.2001 [47.276° N, 80.806° E]; Tarbagatay (No. 034), 22.VII.2001 [47.517° N, 82.726° E]; Tarbagatay (No. 182), 4.VIII.2001 [47.070° N, 82.313° E]. **Kyrgyzstan:** Abshir Say (No. 049), 18.VII.2004 [40.086° N, 72.347° E]; Abshir Say (No. 057), 18.VII.2004 [40.093° N, 72.350° E]; Abshir Say (No. 060), 18.VII.2004 [40.101° N, 72.361° E]; Ananjevo, 29.VII.2000 [42.709° N, 77.694° E]; Bishkek, 15.VII.2004 [42.882° N, 74.591° E]; Chodsha-Ata, 26.VII.1998 [41.757° N, 71.973° E]; Dshan-Bulak, 24.VII.2005 [42.393° N, 78.308° E]; Karakol, 28.VII.2000 [42.424° N, 78.437° E]; Karavshin vall., 24.VII.2004 [39.781° N, 70.412° E]; Karavshin vall., 25.VII.2004 [39.780° N, 70.412° E]; Kysyl-Alai, 26.VII.1999 [39.851° N, 73.291° E]; Moldotoo (2 samples, No. 025, 026), 16.VII.2000 [41.643° N, 75.036° E]; Naryn vall., 21.VII.2000 [41.496° N, 76.424° E]; Naryn vall., 21.VII.2005 [41.495° N, 76.425° E]; Ottuc (No. 066), 22.VII.2000 [42.314° N, 76.314° E]; Ottuc (No. 070), 22.VII.2000 [42.315° N, 76.315° E]; Sary-Tshelek (3 samples, No. 091, 092, 093), 25.VII.1998 [41.812° N, 71.959° E]; Sousamyr vall. (2 samples, No. 009, 021), 17/18.VII.1998 [42.207° N, 73.625° E]; Toktogul, 29.VII.1999 [41.880° N, 72.947° E]; Tos Kol (4 samples, No. 068, 071, 076, 078), 23./24.VII.1998 [41.874° N, 71.979° E]. **Pakistan:** Kawai, 15.VI.1977 [34.7° N, 73.5° E, coordinates estimated]; Naran S, 31.V.1983 [34.9° N, 73.65° E, coordinates estimated]; Naran, 1.VI.1983 [34.8° N, 73.5° E, coordinates estimated]. **Russia:** Alagir, 1907 [43° N, 44.22° E, coordinates estimated]; Kursk steppe, 17.VII.1999 [51.750° N, 36.167° E]. **Slovakia:** Vidova, 15.IV.2005 [48.570° N, 20.458° E]. **Switzerland:** Pfynwald (No. 41), 16.V.1994 [46.300° N, 7.620° E]. **Syria:** Ar Rastan, 18.III.1979 [34.917° N, 36.750° E]; Damascus, before 1886 [33.5° N, 36.3° E, type *clara*, leg. Lortet, coordinates estimated]; Pac de Homs, [34.75° N, 36.75° E, leg. Kerville, coordinates estimated]. **The Netherlands:** Roer, 26.VI.2000 [51.160° N, 6.120° E]. **Turkey:** Aksaray, 2.VI.1993 [38.23° N, 34° E, coordinates estimated]; Ankara, [39.92° N, 32.85° E, leg. Kerville, coordinates estimated]; Arsdahan, 24.VI.1993 [41.130° N, 43.010° E]; Arslanköy, 30.V.1993 [37.170° N, 34.330° E]; Aydogdu (2 samples, No. 1149, 1150), 26.VI.1993 [40.680° N, 42.410° E]; Borcka Civan, 29.VI.1993 [41.330° N, 41.690° E]; Budakli, 17.VI.1993 [38.420° N, 42.420° E]; Catak, 18.VI.1993 [39.500° N, 43.010° E]; Eregli, 3.VI.1993 [37.630° N, 34.080° E]; Kabali, 3.VII.1993 [41.800° N, 35.050° E]; Karakurt, 17.VI.1986 [40.160° N, 42.610° E]; Kizikadag, 21.V.1993 [36.880° N, 29.910° E]; Marmaris, 18.VIII.1992 [36.78° N, 28° E, coordinates estimated]; Mersin NW, 29.V.1993 [37.020° N, 34.330° E]; Ödemis (No. 866), 19.V.1993 [38.420° N, 27.890° E]; Ovitdagi Gecidi, 30.VI.1993 [40.770° N, 40.420° E]; Pinahisar, 10.V.2003 [41.411° N, 27.237° E]; Saklikent, 27.V.1993 [36.840° N, 30.250° E]; Samailli, 20.V.1993 [38.080° N, 28.290° E]; Sarigöl (No. 1179), 28.VI.1993 [41° N, 41.5° E, coordinates estimated]; Ziyarettepesi Gecidi, 9.V.1997 [38.886° N, 36.824° E].

***Formica clara sinae* EMERY, 1925 stat.n.**

1 sample with 6 workers from China was subject to a numeric analysis of 18 characters.

China: Shantung (type *orientalis*), 24.VIII.1922 [36.24° N, 120.32° E, coordinates estimated].

***Formica orangea* sp.n.**

32 samples with 100 workers were subject to a numeric analysis of 18 characters.

Afghanistan: Kabul, 18.IX.1952 [34.41° N, 69.16° E, coordinates estimated]; Tangi Saidan, 27.V.1952 [34.42° N, 69.17° E, coordinates estimated]. **Iran:** Ghuchan, 29.VII.2005 [37.41° N, 58.5° E, coordinates estimated]. **Kazakhstan:** Lake Zaysan (2 samples, No. 215, 355), 26.VII.2001 [47.682° N, 84.646° E]; Zaysan Basin, 25.VII.2001 [47.707° N, 85.300° E]; Zaysan Basin, 26.VII.2001 [47.711° N, 85.303° E]. **Kyrgyzstan:** Issyk Kul (3 samples, No. 174, 177, 181), 22.VII.2000 [42.367° N, 76.200° E]; Issyk Kul (2 samples, No. 55, 56), 22.VII.2000 [42.368° N, 76.195° E]; Karavshin vall. (2 samples, No. 152b, 162b), 24.VII.2004 [39.781° N, 70.412° E]; Shamaldy-Say, 31.VII.2004 [41.119° N, 72.189° E]; Tshatkal vall. (2 samples, 115: type, 116), 28.VII.1998 [41.833° N, 71.195° E]. **Mongolia:** Bogd Sum, 19.VIII.1997 [45.141° N, 100.900° E]; Elsen Tasarkhai, 21.VII.2003 [47.389° N, 103.661° E]; Gobi Altai, 29.VII.2003 [44.54° N, 99.34° E, coordinates estimated]; Urtiyn ekh Oasis (6 samples, No. 326, 329, 403, 404, 405, 414), 31.VII.2003 [44.811° N, 97.368° E]; Zuun Mod Oasis (3 samples, No. 165, 166, 183), 16.VIII.1997 [43.232° N, 99.008° E]; Zuun Mod Oasis, 18.VIII.1997 [43.265° N, 99.218° E]; M515B, 2003, [leg. Pfeiffer, without location]. **Uzbekistan:** Tash-Kurgan, 22.VIII.1897 [38.37° N, 67.93° E, coordinates estimated].

***Formica tarimica* sp.n.**

34 samples with 126 workers were subject to a numeric character analysis of 18 characters.

China: Iminqäk, 9.IX.2004 [41.241° N, 84.436° E]; Iminqäk, 10.IX.2004 [41.230° N, 84.448° E]; Iminqäk, 10.IX.2004 [41.233° N, 84.445° E]; Iminqäk, 13.IX.2004 [41.208° N, 84.383° E]; Korla (3 samples, No. 114, 116, 117), 8.IX.2004 [41.817° N, 86.188° E]; road 218, 4.IX.2004 [41.006° N, 86.676° E]; Shahyar, 15.VII.2006 [40.948° N, 82.879° E]; Shahyar, 15.VII.2006 [40.952° N, 82.869° E]; Yengisar (2 samples, No. 85, 86: type), 3.IX.2004 [42.125° N, 84.432° E]; Yengisar (2 samples, No. 93a, 94), 3.IX.2004 [41.974° N, 84.491° E]; Yengisar, 3.IX.2004 [41.974° N, 84.490° E]; Yengisar, 3.

IX.2004 [42.125° N, 84.431° E]; Yengisar, 3.IX.2004 [42.125° N, 84.433° E]; Yengisar, 9.IX.2004 [41.958° N, 84.677° E]; Yingbazar, 29.VIII.2004 [41.177° N, 84.223° E]; Yingbazar, 29.VIII.2004 [41.189° N, 84.264° E]; Yingbazar, 29.VIII.2004 [41.194° N, 84.261° E]; Yingbazar, 31.VIII.2004 [41.168° N, 84.224° E]; Yingbazar, 31.VIII.2004 [41.169° N, 84.225° E]; Yingbazar (3 samples, No. 65, 66c, 67), 31.VIII.2004 [41.173° N, 84.228° E]; Yingbazar, 1.IX.2004 [41.166° N, 84.204° E]; Yingbazar, 1.IX.2004 [41.168° N, 84.210° E]; Yingbazar, 1.IX.2004 [41.177° N, 84.234° E]; Yingbazar, VIII.2004 [41.173° N, 84.229° E]; Yingbazar (2 samples, No. 1, 5), 12.IX.2006 [41.175° N, 84.231° E]; Yuli, 8.IX.2004 [41.342° N, 86.269° E]; Yuli, 8.IX.2004 [41.342° N, 86.270°].

***Formica anatolica* sp.n.**

13 samples with 54 workers were subject to a numeric analysis of 18 characters.

Turkey: Halkapinar (type), 8.V.1997 [37.348° N, 34.36° E]; Bakirdagi, 10.V.1997 [38.217° N, 35.917° E]; Belören (3 samples), 4.VI.1993 [37.211° N, 32.546° E]; Cankurtaran, 10.V.2003 [38.155° N, 31.239° E]; Carmadi (2 samples), 31.V.1993 [37.823° N, 35.102° E]; Imrasan Gecidi (2 samples), 3.V.1997 [37.133° N, 31.800° E]; Seydisehir, 5.VI.1993 [37.350° N, 31.750° E]; Sylemaniye, 5.VI.1993 [37.100° N, 31.750° E]; Ücpinnar, 4.VI.1993 [37.126° N, 32.250°].

***Formica tianshanica* sp.n.**

32 samples with 119 workers were subject to a numeric character analysis of 18 characters.

China: Bogda Shan (No. 148), 18.IX.2004 [43.869° N, 88.138° E]; Bogda Shan (No. 152), 18.IX.2004 [43.868° N, 88.138° E]; Bogda Shan (No. 166), 19.IX.2004 [43.871° N, 88.143° E]; Bogda Shan (2 samples, No. 173, 174), 19.IX.2004 [43.868° N, 88.143° E]; Bogda Shan (No. 177), 20.IX.2004 [43.864° N, 88.146° E]; Bogda Shan (No. 182), 20.IX.2004 [43.861° N, 88.146° E]; Bogda Shan (No. 186), 20.IX.2004 [43.861° N, 88.144° E]; Bogda Shan (No. 188), 20.IX.2004 [43.852° N, 88.162° E]; Bogda Shan (No. 192), 20.IX.2004 [43.840° N, 88.173° E]; Bogda Shan (No. 193), 20.IX.2004 [43.841° N, 88.173° E]; Bogda Shan (No. 194), 21.IX.2004 [43.821° N, 88.181° E]; Bogda Shan (No. 195), 21.IX.2004 [43.821° N, 88.180° E]; Bogda Shan (No. 196), 21.IX.2004 [43.819° N, 88.186° E]; Bogda Shan (No. 199), 21.IX.2004 [43.817° N, 88.191° E]; Bogda Shan (No. 202), 21.IX.2004 [43.835° N, 88.172° E]; Bogda Shan (No. 206), 22.IX.2004 [43.858° N, 88.177° E]; Bogda Shan (No. 216), 23.IX.2004 [43.868° N, 88.215° E]; Bogda Shan (No. 217), 23.IX.2004 [43.868° N, 88.210° E]; Bogda Shan (2 samples, No. 209, 211), 23.IX.2004 [43.859° N, 88.180° E]; Bogda Shan (2 samples, No. 223, 224), 23.IX.2004 [43.859° N, 88.175° E]; Bogda Shan (2 samples, No. 230, 233), 23.IX.2004 [43.859° N, 88.174° E]; Bogda Shan (No. 236), 25.IX.2004 [43.923° N, 88.233° E]; Bogda Shan (No. 252), 25.IX.2004 [43.943° N, 88.173° E]; Bogda Shan (No. 258), 26.IX.2004 [43.936° N, 88.106° E]. **Kazakhstan:** Saur, 25.VII.2001 [47.357° N, 85.518° E]. **Kyrgyzstan:** Kara Bura, 29.VII.1998 [42.250° N, 71.549° E]; Kap Tshigai vall. (samples No. 3, 4: type), 16.VII.1998 [42.408° N, 73.789° E].

***Formica persica* sp.n.**

20 samples with 54 workers from Iran were subject to a numeric analysis of 18 characters.

Iran: Tuskestan forest (type), 23.IX.2005 [36.767° N, 54.567° E]; Chorteh, 8.VII.1973 [36.767° N, 50.583° E]; Delarestagh vill., 13.VII.2004 [36.400° N, 52.535° E]; Golestan N.P., 29.V.2004 [37.383° N, 55.767° E]; Golestan N.P., 14.V.2007 [37.367° N, 55.817° E]; Golestan N.P., 11.VI.2008 [37.398° N, 55.798° E]; Golestan N.P., 11.VI.2008 [37.388° N, 55.804° E]; Golestan N.P., 14.VI.2008 [37.383° N, 55.817° E]; Asalem, 26.VI.1973 [38.400° N, 48.600° E]; Mazan da ran, 30.07.2007 [36.170° N, 53.215° E]; Nowshahr, 25.VI.2008 [36.601° N, 51.585° E]; Abpari forest, 27.VI.2008 [36.502° N, 51.932° E]; Abpari forest, 27.VI.2008 [36.501° N, 51.982° E]; Talesh (2 samples, No. 3400, 3454), 6.VII.2008 [37.617° N, 48.744° E]; Talesh, 6.VII.2008 [37.681° N, 48.834° E]; Talesh, 7.VII.2008 [37.679° N, 48.808° E]; Talesh, 7.VII.2008 [37.705° N, 48.887° E]; Talesh, Alasem r., 9.VII.2008 [37.681° N, 48.834° E]; Tehran, Pol-e-Zanguleh, 12.VII.1973 [36.217° N, 51.317° E].

***Formica glabridorsis* SANTSCHI, 1925**

6 samples with 21 workers from China were subject to a numeric analysis of 18 characters.

China: Peking (type), 1905 [39.93° N, 116.39° E, coordinates estimated]; Peking, Summer Palace, 22.VIII.2004 [39.998° N, 116.273° E]; Shaanxi, Lintong, 25.VIII.1995 [34.333° N, 109.267° E]; Shaanxi, Wei He River, 22.VIII.1995 [34.400° N, 108.917° E]; Shaanxi, Zhouzhi, 24.VIII.1995 [34.150° N, 108.283° E]; Yunnan, Mekong, 05.VI.2006 [27.048° N, 99.157° E].