

THE ANT (HYMENOPTERA: FORMICIDAE) TYPES IN ARGENTINIAN COLLECTIONS

DONAT AGOSTI

Department of Entomology, American Museum of Natural History,
Central Park West at 79th Street, New York, New York 10024-5192

Abstract.—Type specimens of 114 species and subspecific ant taxa in Argentinian insect collections are listed, including 14 holotypes and 5 lectotypes. Most of the types are Neotropical, with the exception of a series of Karavajev types from South East Asia.

The two collection at the Division Entomologia, Museo Argentino de Ciencias Naturales in Buenos Aires includes (MACN) and the Fundacion e Instituto Miguel Lillo, Universidad Nacional de Tucuman in Tucuman (IMLA), house all ant types in Argentina. The collection of 50 Kusnezov types at IMLA, the Bruch collection and thirteen Karavajev types from SE-Asia in MACN is the most important holding because of the 14 holotypes and 2 lectotypes. The latter includes one holotype of each W. L. Brown, Jr., Th. Borgmeier, and W. Kempf.

The Karavajev types are in a small separate box in MACN, which is labeled as follows: "Donacion Dr. Alejandro A. Oglobin" and "Hormigas tejedoras, Formicidae, gen. *Oecophylla*, *Polyrhachis*, tipos del mirmecology Karawajew". The box includes also 19 further species identified by Karawajew. Bruch's collection is at MACN, but his extensive photographic documentation is at the Museo de la Plata in La Plata (MLPA).

Type designation in myrmecology has in the past been rather loose. Ants, being social, led to a long upheld practice of not designing a holotype, but rather designate syntypes, types, including a series of specimens.

The list is organized alphabetically following subfamilies and genera. Only the often fragmentary information provided on the labels are listed. The taxa are listed following the valid combination. If this does not agree with the label data, the original genus used on the label is provided in brackets. Types for which no corresponding description can be found are nevertheless listed. Further information on the species can be found in Bolton (1995). The abbreviations of the collections follows Arnett et al. (1993), which includes also the addresses of the collections.

CERAPACHYINAE

- Acanthostichus femoralis* Kusnezov Syntypes 17 workers, #10449; Argentina, Formosa, Ing. Juarez, N. Kusnezov, viii. 1958, IMLA [manuscript name?].
Cerapachys silvestrii Mann Cotype 3 workers P.R. Rio Pideras, Insular Expedition Station, F. Sein Jr., Feb. 5, 30. IMLA. In soil in sugar cane [manuscript name?].

DOLICHODERINAE

- Dolichoderus (Monacis) andinus* Kempf. Paratypes 2 workers, 1145, Peru Pichita, Caluga, 2,150 m, Weyrauch, 18.9.1960. IMLA.

- Dolichoderus (Monacis) lobicornis* Kempf. Paratypes 3 workers. Blumenau, M. Witte, 10.12.1921. IMLA.
- Dorymyrmex (Dorymyrmex) emmaericaellus* Kusnezov. Holotype and paratypes 6 workers. Bolivia, Cochabamba, La Paz. IMLA.
- Forelius (Neoforelius) tucumanus* Kusnezov. Syntypes 2 females. #5617, Tucuman, N.Kusnezov. IMLA.

ECITONINAE

- Eciton mexicanum argentinum* Borgmeier. Holotype 1 female. #32890, Roque Saenz Peria (Chaco), F. Ohnehider. MACN.
- Eciton setigaster* Borgmeier. Cotype 1 female. #11804, Bolivia. MACN.
- Neivamyrmex Eciton hetschkoi oglobini* Santschi. Typus 1 female. Argentina, Misiones Dr. A. A. Oglobin. MACN.
- Neivamyrmex hetschkoi* Mayr. Cotype 1 worker. #2001, Argentina, Misiones, Est. Exp., Loreto, Dr. A. A. Oglobin. MACN.
- Neivamyrmex impudens* W. M. Mann. Cotypes 3 workers. Honduras, Progreso, W. M. Mann. IMLA.
- Neivamyrmex laevigatum* Borgmeier. Cotypes 2 workers, 1 male. #2580, Argentina, Rogne (?), S. Pena, N. Kusnezov, 13.6.48. IMLA.
- Neivamyrmex (Eciton) pseudops grandipseudops* Bruch. Typus 1 female. Argentina, Alta Gracia, La Granja, Sierras de Cordoba, C. Bruch. MACN.

FORMICINAE

- Acropyga (Rhizomyrma) wheeleri* Mann. Cotypes 3 workers. Honduras, Lombardia. IMLA.
- Camponotus aguilerai* Kusnezov. Syntypes 10 workers. Argentina, Jujuy, 6.1.1949. IMLA.
- Camponotus goeldii* Forel. Syntype 1 worker. Brazil, Rio de Janeiro. IMLA.
- Camponotus guayapa* Kusnezov. Holotype and paratypes 6 workers. La Rioja, Guayapa, 12.8.1948. IMLA.
- Camponotus phytophilus* Wheeler. Cotypes 4 workers. #2834/sk., Mexico, Guernavaca, E. Skwarra, 6.26.1929. IMLA.
- Camponotus quercicola* M. R. Smith. Paratypes 6 workers. USNM paratype #62025, Los Angeles, Tambark flat, T. C. Laurence, 7.15.1952. IMLA.
- Myrmelachista ina* Kusnezov. Holotype and paratypes 36 workers. Argentina, Misiones, Manuel Belgrano, N. Kusnezov, 7.26.1949. IMLA.
- Myrmelachista schachovski* Kusnezov. Syntypes 2 workers. Argentina, San Martin de Los Andes, S. Shajovskoi. IMLA.
- Myrmelachista ute* Kusnezov. Holotype and paratypes 20 workers. Argentina, Misiones, M. Belgrano, N. Kusnezov, 7.27.1947. IMLA.
- Myrmelachista vicina* Kusnezov. Holotype (male), paratypes 1 male, 2 females, 1 worker. Neuqueu, Lago Cacar, Schachovskoi. IMLA.
- Camponotus mucronatus hirsutifrons* [manuscript name?]. Types 6 workers. Guatemala, Zacapa W. M. Wheeler, 12.13.1911. IMLA.
- Paratrechina dichroa* Karavajev. Typus 1 worker. #2399, Prinseneiland, Karavajev. MACN (Karawajew).

- Paratrechina koningsbergi* Karavajev. Typus 1 worker. #3869, Java, Jibodas, Karavajev. MACN (Karawajew).
- Polyrhachis flavoflagellata* Karavajev. Typus 1 worker. #2875, Java, Buitenzorg, Karavajev. MACN (Karawajew).
- Polyrhachis keratifera* Karavajev. Typus 1 worker. #2505, Amboina, Karavajev. MACN (Karawajew).
- Polyrhachis mystica* Karavajev. Typus 1 worker. #2353, Java, Buitenzorg, Karavajev. MACN (Karawajew).
- Polyrhachis ochracea* Karavajev. Typus 1 worker. #35090, Java, Buitenzorg, Karavajev. MACN (Karawajew).
- Polyrhachis rastellata javana* Karavajev. Typus 1 worker. #2875, Java, Buitenzorg, Karavajev. MACN (Karawajew).
- Polyrhachis rotundiceps* Karavajev. Typus 1 worker. #3004, Wammar, Ins. Aru, Karavajev. MACN (Karawajew).
- Polyrhachis schang gracilior* Karavajev. Typus 1 worker. #2503, Amboina, Karavajev. MACN (Karawajew).
- Polyrhachis tibialis orientalis* Karavajev. Typus 1 worker. #2439, Tifoc (Bocroc (?)), Karavajev. MACN (Karawajew).
- Polyrhachis tibialis robustior* Karavajev. Typus 1 worker. #2583, Wammar, Ins. Aru, Karavajev. MACN (Karawajew).
- Polyrhachis tubifex* Karavajev. Typus 1 worker. #2359, Java, Buitenzorg, Karavajev. MACN (Karawajew).
- Pseudolasius carinatus* Karavajev. Typus 1 worker. #2537, Aroe, Karavajev. MACN (Karawajew).

MYRMICINAE

- Atta opaciceps* Borgmeier. Paratype 1 worker. Brazil, Tapera, Pernambuco, F. Carvalho, 1.941. IMLA.
- Atta robusta* Borgmeier. Paratypes 2 workers. Brazil, Rio de Janeiro, São Bento, F. Torres, 15.x.935. IMLA.
- Basiceros singularis* F. Smith. Lectotype (designated by W. L. Brown) 1 worker. B. G., Kurupung, H. C. Lang. IMLA.
- Basiceros squamifer* Borgmeier. Syntypes 3 workers. #5510, Rio de Janeiro, Angra dos Reis, Jussaral, Lopes and Lent. IMLA (ex coll. Borgmeier).
- Chelistruma lilloanus* (Brown). Holotype and paratypes 3 workers. Argentina, Tucuman, N. Kusnezov, iii.20.48. IMLA.
- Crematogaster hyperphyes* Kusnezov. Paratype 1 female. #7080, Bolivia, Chapare, Marcus, 1.7.49. IMLA.
- Crematogaster hyperphyes* Kusnezov. Paratypes 1 worker and 1 male. #7079, Bolivia, Chapare, Marcus, 27.viii.49. IMLA [no type labels, but same blank red standard labels].
- Leptothorax pergandei* Emery. Cotypes 2 workers. USNM Cotype #54078, USA, DC, Washington, 9.10. IMLA.
- Monomorium minimum cyaneum* Wheeler and Mann. Paratypes 3 workers. #128, Mexico Hidalgo, Guerrero Mill, Mann. IMLA.

- Monomorium (Monomorium), minimum emersoni* Gregg. Paratypes 3 worker USNM type #57292, USA, Texas, Austin, A. Emerson, iv.6.1937. IMLA.
- Neostruma zeteki* Brown. Paratypes 2 workers. #5059, Panama, Barro Colorado Island, Zetek, Feb-March 43. IMLA.
- Pheidole eglobini* Kusnezov. Paratypes 2 workers. #4699, Argentina, Misiones, Yacuy. IMLA [manuscript name?].
- Cyphomyrmex hillbramus* Kusnezov. Paratypes 2 workers. Argentina, Salta, R. Soladillo, R.55-km 1442, 25.1.948. IMLA [manuscript name?].
- Cyphomyrmex ulemlii* Kusnezov. Syntype 1 worker. #8849, Argentina, El Rey, Salta, 6.2.53. IMLA [manuscript name?].
- Ochetomyrmex (Brownidris) argentinus* (Kusnezov). Syntypes 1 female, 5 workers. Argentina, Misiones, Loreto, Dr. A. A. Oglobin. IMLA.
- Ochetomyrmex (Brownidris) argentinus* (Kusnezov). Syntype 1 female. Tucuman, Trancas, ii.1947. IMLA.
- Ochetomyrmex (Brownidris) bolivianus* (Kusnezov). Holotype 1 female. Bolivia, entre Warnes y Montero, Sta. Cruz, Wygodzinsky, 27/28-1-1958. IMLA.
- Octostruma stenognatha* Borgmeier and Kempf. Paratype 1 worker. Brazil, Nova Teutonia, 27°11'S, 52°23'W, 3-500 m, Fritz Plaumann, vi.1957. IMLA.
- Oligomyrmex (Erebomyrma) eidmanni* (Menozi). Syntypes 6 workers. Resistencia Chaco, 6.17.948. IMLA.
- Oligomyrmex (Erebomyrma) eidmanni* (Menozi) Syntypes 3 workers. Brazil, Mendes, H. Eidmann, 3.10.33. IMLA.
- Oligomyrmex stenopterus* Kusnezov. Types 2 females. #6087, Argentina, Misiones, Est. Exp., Loreto, Dr. A. A. Oglobin. IMLA.
- Orectognathus clarki* Brown. Paratype 1 worker. Australia, Victoria, Ferntree Gulley, W. L. Brown, 1.1.58. IMLA.
- Oxyepoecus (Martia) inquilina* (Kusnezov). Holotype 1 worker. #1832, Argentina, Tucuman, Jardin Ins. M. Lillo, N. Kusnezov, 2.v.1948. IMLA.
- Oxyepoecus (Martia) minuta* (Kusnezov). Holotype 1 worker. Tucuman, Quebrada Cainzo, N. Kusnezov, 8-iv.1948. IMLA.
- Pheidole bambusarum* Forel. Cotypes 9 workers. Brazil, São Paulo, Grand bambou forêt, Lutz. IMLA.
- Pheidole carapunco* Kusnezov. Syntypes 1 soldier, 6 workers. #1295, Argentina, Tucuman, Carapunco, 2,600 m, N. Kusnezov. IMLA [1 worker lectotype designated by E. O. Wilson].
- Pheidole descolei* Kusnezov. Lectotype and paralectotypes 9 workers. Argentina, Salta, Apolinario, Saravia, F. E. Luna, 1948. IMLA [1 worker Lectotype designated by E. O. Wilson].
- Pheidole gavrilovi* Kusnezov Lectotype 1 worker, paralectotypes 1 female, 6 workers. #5137, Argentina, Misiones, Loreto, 19.vi.949. IMLA [1 worker Lectotype designated by E. O. Wilson].
- Pheidole (Elasmopheidole) lilloi* (Kusnezov). Holotype 1 female. Tucuman, 7.i.48, IMLA.
- Pheidole minutissima* Kusnezov. Lectotype worker, paralectotypes 5 workers. #5348, Argentina, Misiones, Eldorado, N. Kusnezov. IMLA [1 worker Lectotype designated by E. O. Wilson].
- Pheidole (Elasmopheidole) subaberrans* (Kusnezov). Paratypes 2 workers. #1679,

- Salinas, 16.4.48; 1 female. #4586, Salta, Oran, 23.11.48; 2 females. Rio Calera, 25.4.48; 1 worker. #1792, ?. IMLA.
- Pheidole (Eriopheidole) symbiotica* (Kusnezov) Paratypes 1 female, 1 male, 7177, La Picaga, N. Kusnezov, v.1951. IMLA.
- Pogonomyrmex anergismus* Cole. Paratypes 2 females. #2911, USA, New Mexico, A. C. Cole, Sept. 12, 1961. IMLA.
- Pogonomyrmex guatemaltecus* Wheeler. Cotypes 3 workers. MCZ-Cotype 20–24 20577, Guatemala, Zacapa, W. M. Wheeler, Dec. 12, 1911. IMLA.
- Pogonomyrmex longibarbis andinus* Kusnezov. Paratypes 3 females, 2 males, 3 workers. #5712, San Antonio de los Cobres, 22.12.49. IMLA.
- Pogonomyrmex longibarbis andinus* Kusnezov. Paratypes 3 workers. La Rioja, San Refugio del Penon, 4,000m, Monros, 1.47. IMLA.
- Pogonomyrmex marcusii lobatus* Kusnezov. Paratypes (?) 3 workers. Bolivia, Cochabamba, La Paz, N. Kusnezov. IMLA [unlabeled standard red type label].
- Pogonomyrmex meridionalis leonis* Kusnezov. Paratypes 4 workers. #5834, Santa Cruz, Canadon, N. Kusnezov. IMLA.
- Pogonomyrmex odoratus* Kusnezov. Paratypes 3 males, 6 workers. #3553, Cerro Olto, 6.2.49. IMLA.
- Pogonomyrmex odoratus* Kusnezov. Paratypes 1 female, 1 worker. Bariloche, 6.2.49. IMLA [unlabeled red type label].
- Pogonomyrmex rugosus* Emery. Cotype 1 worker. USNM type #54071, USA, California, S. Jacinto, T. Pergand. IMLA.
- Procryptocerus marginatus* Borgmeier. Paratype 1 worker. Brazil, Bahia, Uruçuca, P. Silva, 1947. IMLA.
- Procryptocerus montanus* Kempf. Paratypes 12 workers. #1645, Brazil, SP, Campos do Jordão, Kempf, 14.xi.1956. IMLA.
- Solenopsis (Labauchena) acuminata* (Borgmeier). Cotype 1 female. Luna. IMLA.
- Solenopsis basalis major* Forel. Cotypes 6 workers. #12085, Argentina, La Plata, Bruch, 9.10.1912. IMLA.
- Solenopsis clyptemnestra bruchi* Forel. Cotypes ? #12093/92, Argentina, La Plata, Bruch, 1892. IMLA.
- Solenopsis clyptemnestra orestes* Forel. Cotypes 22 workers. Brazil, Ceara, Roche. IMLA.
- Solenopsis (Synsolenopsis) egregia* (Kusnezov). Paratypes 4 females, 11 workers. #1298 Argentina, Tucuman, Tafi del Valle, N.K., 3.10.48. IMLA.
- Solenopsis (Synsolenopsis) eximia* (Kusnezov). Syntype 1 worker. #2411, Uriburu, Formosa, 6.21.48. IMLA.
- Solenopsis globularia* Forel. Syntypes 2 workers. IMLA.
- Solenopsis hammari carhuensis* Forel. Cotype 1 worker. Buenos Aires, Bruch. IMLA.
- Solenopsis latastei hoffmanni* Forel. Syntypes 5 workers, 7 females. IMLA.
- Solenopsis (Bisolenopsis) sea* (Kusnezov). Syntypes 4 males, 4 females. #752, Argentina, Santa Fé, Villa Ana, H. Willink, 2.1946. IMLA.
- Solenopsis (Paranamyrmica) solenopsidis* (Kusnezov). Paratypes 2 females. #7122, La Picaga, E. Rios, N. Kusnezov. IMLA.
- Solenopsis (Paranamyrmica) solenopsidis* (Kusnezov). Paratype 1 female. #4996, Misiones, Iguazu, N. Kusnezov, 25.7.49. IMLA.

- Solenopsis spei* Forel. Cotypes 6 workers. Esperanza, A. Forel, in nest of *Atta cephalotes*. IMLA.
- Strumigenys planeti* Brown. Paratypes 2 workers. Bolivia, Beni, Huachi, W. M. Mann, 1921-22, Mullford Exp. IMLA.
- Strumigenys praecava* Brown. Paratypes 3 workers. MCZ-Paratype #29293, Panama, Barro Colorado Island, W. M. Wheeler, 6.27.24. IMLA.
- Tetramorium (Triglyphothrix) desertorum* (Forel). Syntypes 8 workers. IMLA.
- Wasmannia williamsoni* Kusnezov. 1 worker. #6060, Gral, Pico. IMLA [unlabeled red type label]
- Zacryptocerus (Paracryptocerus) borgmeieri* (Kempf). Holotype and paratypes 6 workers. #5330, Misiones, Iguazu, N. Kusnezov, 29.7.49. IMLA.
- Zacryptocerus (Paracryptocerus) borgmeieri* (Kempf). Paratype 1 worker. Misiones, Iguazu, N. Kusnezov. IMLA.
- Zacryptocerus (Paracryptocerus) coffeae* (Kempf). Paratype 1 female, 1 worker. Colombia, Cundinamana, Tibacuy, 18.iii.952. IMLA.
- Zacryptocerus (Paracryptocerus) coffeae* (Kempf). Paratype 1 worker. Colombia, Cundinamana, 1500m, Bernel + Mendoza, 13.3.1952. IMLA.

PONERINAE

- Ectatomma regis* Kusnezov. Holotype 1 worker. Argentina, Salta, El Rey, Nogues N. Kusnezov, 14.ii.1953; paratype 1 worker. #6185, Argentina, Tucuman, Ruta 9 km 1335; paratype 1 worker, Argentina Rio Sali, 40 km of Tucuman 10.1.48 IMLA.
- Metapone hewitti* Wheeler. Paratype 1 worker. F946, Malaysia, Borneo, Kuching, J. Hewitt. IMLA.
- Metapone tillyardi* Wheeler. Cotype 1 female. MCZ-Cotype 1-2 20787, Mt. Tambourine, A. M. Lea. IMLA.
- Pachycondyla (Neoponera) goldbachii goyana* (Kusnezov) Holotype and paratype 2 workers. #4792, Argentina, Misiones, Iguazu, 7.24.1949. IMLA.
- Probolomyrmex brujitae* Agosti. Holotype, female. Argentina, Jujuy Aguas Blancas-Yaculica (Argentinian-Bolivian frontier), 22°43'44"S 64°22'25"W, 460 m, 25 October 1994, D. Agosti & J. M. Carpenter.

PSEUDOMYRMECINAE

- Pseudomyrmex acanthobia cocae* Santschi. Typus 6 females, 3 males, 7 workers. Argentina, Alta Grande, La Granja, Sierras de Cordoba, C. Bruch, 1.922. MACN.
- Pseudomyrmex arborissanctae symbioticus* Forel. Cotypes 6 workers, #12010, Colombia, Dibulla. IMLA.
- Pseudomyrmex (Pseudomyrma) championii haytiana paulina* (Forel). Cotypus 1 female, 1 worker Argentina, Bruch, 989. MACN.
- Pseudomyrmex flavidula laevivertex lizeri* Santschi. Cotype 1 worker. #1144, Bolivia. MACN.
- Pseudomyrmex (Pseudomyrma) gracilis argentina* (Santschi). Typus 2 workers. #2026, Argentina, Misiones, Loreto (Est. Exp.), Dr. A. A. Oglobin. MACN.
- Pseudomyrmex (Pseudomyrma) gracilis glabriventris* (Santschi). Typus 1 worker, cotypus 1 female. #1170, Bolivia. MACN.

Pseudomyrmex (Pseudomyrma) gracilis sericata (Santschi). Typus 4 workers. Paraguay. MACN.

Pseudomyrmex oglobini Santschi. Cotypes (?) 9 workers. #2088, Argentina, Misiones, Loreto, Dr. A. A. Oglobin; Nido ne las tamas de lapacho (Tecoma Ipe) de 35 mts de altura - Patoreo (Grande) IMLA.

ACKNOWLEDGMENTS

This work was supported by a grant from NSF to Platnick. Willems was very helpful in organizing the visit in Tucuman as well as discussing the remain of other ant collections in Argentina. This compilation is part of a survey of Argentina, supported by the Argentinian National Parks through the necessary collecting permits.

LITERATURE CITED

- Arnett, R. H., Jr., G. A. Samuelsen, and G. M. Nishida. 1993. The Insect and Spider Collections of the World. Flora and Fauna Handbook 11:310pp.
- Bolton, B. 1995. A New General Catalogue of the Ants of the World. Harvard University Press, 504 pp.

Received and accepted 12 December 1997.