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A LIST OF FLORIDA ANTS*

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The following list embracing some 76 species, although probably far from being complete is presented here with the hope that it may be of some aid to taxonomists and to others who are especially interested in the fauna of our country. Florida occupies a unique geographical position, myrmecologically speaking, in that it contains many ants which are indigenous to the West Indies and to the neighboring islands. Some of the species which are common to Florida and the neighboring islands are for example: *Euponera* (T) *stigma* (Fabr.), *Cyphomyrmex rimosus* subsp. *minutus* Mayr, *Cryptocerus varians* F. Smith, *Tapinoma littorale* Wheeler, and *Pseudomyrma elongata* Mayr.

Florida also has her share of imported species, among these may be mentioned: *Monomorium pharaonis* (Linn.) and *M. floricola* (Jerdon), *Solenopsis geminata* subsp. *rufa* (Jerdon), *Tetramorium guineense* (Fabr.), *Wasmannia auropunctata* (Roger), *Tapinoma melanocephalum* (Fabr.), *Paratrechina longicornis* (Latr.), and *Paratrechina bourbonica* Forel var. It is very strange that the Argentine ant, *Iridomyrmex humilis* Mayr is not amongst these.

Quite a number of North American ants have been described from Florida by Emery and Wheeler. It is to be regretted that Emery failed in many instances to cite specific type localities in connection with his descriptions and designated the specimens he was describing only as from Florida.

Although numerous collectors and systematists have collected in Florida and must undoubtedly have taken many ants, I have had no access to their collections or notes. The information on which this paper is based has been gleaned from various publi-

*(Contribution from the Mississippi Agricultural Experiment Station.)

cations which I have seen, and from the determinations I have made of specimens sent me by Dr. W. S. Blatchley, and Messrs. S. O. Hill, R. H. Hicks, H. T. Woodruff, and Hermann Raster. I am very greatly indebted to these gentlemen for the records and especially so to Dr. Blatchley who has in addition furnished many notes in connection with his specimens.

PONERINAE

1. *Euponera* (*Trachymesopus*) *stigma* (Fabricius).
Ft. Worth. P. J. Schmitt. (Wheeler and Gaige, *Psyche*, Vol. 27, p. 69, (1920)).
2. *Ponera* *coarctata* subsp. *pennsylvanica* (Buckley).
Florida. (Emery, *Zool. Jahrb. Syst.* Vol. 8, p. 268, (1895)).
3. *Ponera* *trigona* var. *opacior* Forel.
Jacksonville. (Wheeler, *Bull. Amer. Mus. Nat. Hist.* Vol. 24, p. 405, (1908)).
4. *Ponera* *opaciceps* Mayr.
Royal Palm Park.—W. S. Blatchley. "Nests beneath boards and stones in the everglades"; Dunedin.—W. S. Blatchley.
5. *Leptogenys* (*Lobopelta*) *elongata* (Buckley).
Belleair. (Wheeler, *Bull. Amer. Mus. Nat. Hist.* Vol. 24, p. 407, (1908)).
6. *Odontomachus* *haematodes* subsp. *insularis* Guérin.
Florida. (Emery, *Zool. Jahrb. Syst.* Vol. 8, p. 268, (1895)). Royal Palm Park.—W. S. Blatchley. "Beaten from dead leaves of royal palm. Nests beneath stones in the dense hammock"; Saint Petersburg.—H. Raster.
7. *Stigmatomma* *pallipes* (Haldeman).
Dunedin.—W. S. Blatchley.

DORYLINAE

8. *Eciton* (*Acamatus*) *opacithorax* Emery.
Saint Augustine.—C. T. Brues.
9. *Eciton* (*Acamatus*) *schmitti* Emery.
Florida. This species undoubtedly occurs in the state as it is common in the adjoining states.

PSEUDOMYRMINAE

10. *Pseudomyrma* *pallida* F. Smith.
Florida. (Emery, *Zool. Jahrb. Syst.* Vol. 8, p. 269, (1895)).
11. *Pseudomyrma* *flavidula* F. Smith.
Key West. (Emery, *ibidem*, p. 269); Royal Palm Park.—W. S. Blatchley. "Many examples of this slender bodied, pale yellowish species were beaten singly into the umbrella from foliage along the borders or paths of the dense hammocks. Others were taken by sweeping in low ground. It nests in the twigs or stems of plants."
12. *Pseudomyrma* *elongata* Mayr.
Key West. (Emery, *ibidem* p. 269); Royal Palm Park.—W. S. Blatchley.

13. *Pseudomyrma brunnea* F. Smith.
Haw Creek, Volusia County. (Emery, *ibidem*, p. 269.) Royal Palm Park.—W. S. Blatchley. "Nests in the roots of bunches of grass along the ditches."

MYRMYCINAE

14. *Monomorium minimum* (Buckley).
Florida. (Emery, *ibidem*, p. 274.)
15. *Monomorium floricola* (Jerdon).
Florida. (Emery, *ibidem*, p. 275); Royal Palm Park.—W. S. Blatchley. "Nests beneath stones in damp localities."
16. *Monomorium pharaonis* (Linnaeus).
Royal Palm Park.—W. S. Blatchley. "In December it occurred by the hundreds in my room at the lodge, where it attacked such of my specimens of insects as were not in capsules, or tightly closed pill boxes"; Miami.—H. T. Woodruff.
17. *Xenomyrmex stoll*i subsp. *floridanus* Emery.
Lake Worth, type locality. (Emery, *Zool. Jahrb. Syst.* Vol. 8, p. 275.)
18. *Solenopsis geminata* (Fabricius).
Florida. (Emery, *ibidem*, p. 276.)
19. *Solenopsis geminata* subsp. *rufa* (Jerdon).
Royal Palm Park.—W. S. Blatchley. "Nesting beneath stones and boards, in tufts of grass and beneath the bark of pine logs." Saint Petersburg.—H. Raster; Miami Beach.—S. O. Hill.
20. *Solenopsis picta* Emery.
Florida, type locality. (Emery, *Zool. Jahrb. Syst.* Vol. 8, p. 279.)
21. *Solenopsis laeviceps*. ? Mayr.
Dunedin.—W. S. Blatchley.
22. *Pheidole flavens* subsp. *floridana* Emery.
Cocoanut and St. George, type locality (Emery, *ibidem*, p. 293). Royal Palm Park.—W. S. Blatchley. "Nests beneath loose bark of pine logs"; Dunedin.—W. S. Blatchley.
23. *Pheidole metallescens* Emery.
St. George, type locality. (Emery, *ibidem*, p. 294); Royal Palm Park.—W. S. Blatchley.
24. *Pheidole morrisi* Forel.
Florida. (Emery, *ibidem*, p. 295); Royal Palm Park.—W. S. Blatchley; Saint Petersburg.—H. Raster.
25. *Pheidole dentata* Mayr.
Royal Palm Park.—W. S. Blatchley. "Nests beneath boards in damp places."
26. *Pheidole dentata* var. *commutata* Mayr.
Florida, type locality, (Emery, *Zool. Jahrb. Syst.* Vol. 8, p. 295, (1895)).
27. *Pogonomyrmex badius* (Latreille).
Florida. (Emery, *Zool. Jahrb. Syst.* Vol. 8, p. 310, (1895)). Saint Petersburg.—H. Raster; Rock Springs.—H. T. Woodruff.

28. *Leptothorax (Dichothorax) pergandei* subsp. *floridanus* Emery.
Florida, type locality. (Emery, *ibidem*, p. 324.)
29. *Tetramorium guineense* (Fabricius).
Florida. (Emery, *ibidem*, p. 324); Royal Palm Park.—W. S. Blatchley.
30. *Cardiocondyla emeryi* Forel.
Miami. (Wheeler, *Bull. Amer. Mus. Nat. Hist.* Vol. 34, p. 393, (1915)).
31. *Wasmannia aurepunctata* (Roger).
Miami.—R. H. Hicks; Fort Lauderdale.—S. O. Hill.
32. *Myrmecina graminicola americana* var. *brevispinosa* Emery.
Royal Palm Park.—W. S. Blatchley.
33. *Aphaenogaster mariae* Forel.
Florida. (Mayr, *Verh. Zool.-bot. Ges. Wien*, Vol. 36, p. 443 (1886)).
34. *Aphaenogaster fulva* subsp. *aquia* (Buckley).
Royal Palm Park.—W. S. Blatchley.
35. *Aphaenogaster lamellidens* Mayr.
Florida. (Mayr, *Verh. Zool.-bot. Ges. Wien*, Vol. 36, p. 444, (1886)).
36. *Aphaenogaster texana* var. *furvescens* Wheeler.
Royal Palm Park.—W. S. Blatchley.
37. *Aphaenogaster treatae* var. *ashmeadi* Emery.
Florida, type locality. (Emery, *Zool. Jahrb. Syst.* Vol. 8, p. 302, (1895)).
38. *Atta (Trachymyrmex) septentrionalis* var. *seminole* Wheeler.
Miami, type locality. (Wheeler, *Jr. N. Y. Ent. Soc.* Vol. 19, p. 247, 1911)).
39. *Cyphomyrmex rimosus* subsp. *minutus* Mayr.
Planter & Key Largo. (Wheeler, *Bull. Amer. Mus. Nat. Hist.* Vol. 23, p. 722, (1907)); Royal Palm Park.—W. S. Blatchley. "Found beneath bark of pine logs on Long Pine Key and in woody fungi in the hammock near the lodge."
40. *Cryptocerus varians* F. Smith.
Key West. (Emery, *Zool. Jahrb. Syst.* Vol. 8, p. 325, (1895)).
41. *Crematogaster minutissima* Mayr.
Royal Palm Park.—W. S. Blatchley; Dunedin.—W. S. Blatchley.
42. *Crematogaster opaca depilis* var. *punctulata* Emery.
Royal Palm Park.—W. S. Blatchley.
43. *Crematogaster laeviuscula* Mayr.
Florida. (Emery, *Zool. Jahrb. Syst.* Vol. 8, p. 285, (1895)). Royal Palm Park.—W. S. Blatchley.
44. *Crematogaster lineolata* Say.
Florida. (Emery, *ibidem*, p. 282).
45. *Crematogaster ashmeadi* Mayr.
Key West. (Emery, *ibidem*, p. 286). Royal Palm Park.—W. S. Blatchley.
46. *Crematogaster atkinsoni* Wheeler.
Royal Palm Park.—W. S. Blatchley. "This ant builds nests of a kind of paper which it makes from vegetable debris. These nests

are attached to various objects. Two of them about the size of a quart cup were noted on Long Pine Key. They were fastened to the twigs of low shrubs growing in moist places. When the nest is disturbed the ants become very ferocious rushing forth by hundreds. They cling in bunches and try to bite the collecting forceps until they are shaken into the cyanide bottle." Fort Myers, type locality. (Wheeler, Psyche, Vol. 26, p. 108 (1919)).

DOLICHODERINAE

47. *Dolichoderus plagiatus* subsp. *pustulatus* Mayr.
Royal Palm Park.—W. S. Blatchley. "Found nesting beneath loose bark of pine logs on Long Pine Key, and beneath boards on the ground near the old tomato packing shed. Also swept from weeds in old fields."
48. *Dolichoderus plagiatus* subsp. *pustulatus* var.
Royal Palm Park.—W. S. Blatchley.
49. *Tapinoma melanocephalum* (Fabricius).
Royal Palm Park.—W. S. Blatchley; Saint Petersburg.—H. Raster.
50. *Tapinoma littorale* Wheeler.
Card's Point. (Wheeler, Bul. Amer. Mus. Nat. Hist. Vol. 21, p. 109, 1905)).
51. *Tapinoma sessile* (Say).
Florida. (Mayr, Verh. Zool.-bot. Ges. Wien, Vol. 36, p. 434, (1886)).
Royal Palm Park.—W. S. Blatchley.
52. *Dorymyrmex pyramicus* Roger.
Florida. (Emery, Zool. Jahrb. Syst. Vol. 8, p. 331, 1895.)
53. *Dorymyrmex pyramicus* var. *flavus* McCook.
Florida. (Emery, ibidem, p. 332.)
54. *Iridomyrmex pruinosus* (Roger).
Florida. (Emery, ibidem, p. 333); Royal Palm Park.—W. S. Blatchley, "Found nesting in December beneath a chunk of decaying limestone on Long Pine Key"; St. Petersburg.—H. Raster.
55. *Iridomyrmex pruinosus* var. *analix* (Andre).
This species undoubtedly occurs in Florida, although I have seen no specimens of it from that state nor have I seen any records of its occurrence there.

FORMICINAE

56. *Lasius niger alienus* var. *americanus* Emery.
Florida. (Mayr, Verh. Zool.-bot. Ges. Wien, Vol. 36, p. 429, (1886)).
57. *Lasius brevicornis* Emery.
Florida. (Emery, Zool. Jahrb. Syst. Vol. 8, p. 639, (1895)).
58. *Lasius (Acanthomyops) claviger* (Roger).
Florida. (Emery, Zool. Jahrb. Syst. Vol. 8, p. 642, (1895)).
59. *Brachymyrmex heeri* subsp. *depilis* Emery.
Florida. (Emery, Zool. Jahrb. Syst. Vol. 7, p. 635, (1893)).
60. *Paratrechina longicornis* (Latreille).
Royal Palm Park.—W. S. Blatchley; St. Petersburg.—H. Raster.

61. *Paratrechina* (*Nylanderia*) *parvula* Mayr.
Florida. (Emery, *ibidem*, p. 636.)
62. *Paratrechina* (*Nylanderia*) *vividula* (Nylander).
Florida. (Mayr. *ibidem*, p. 431.)
63. *Paratrechina* (*Nylanderia*) *bourbonica* Forel var.
Miami Beach.—S. O. Hill. "On pavement and sand."
An imported species heretofore unrecorded from the United States.
64. *Prenolepis imparis* (Say).
Florida. (Mayr. *Verh. Zool.-bot. Ges. Wien*, Vol. 36, p. 431, (1886)).
65. *Formica pallide fulva schaufussi* Mayr. var.
St. Petersburg.—H. Raster.
66. *Camponotus caryae* (Fitch).
Florida. (Emery, *Zool. Jahrb. Syst.* Vol. 7, p. 675. (1893)).
67. *Camponotus caryae* subsp. *rasilis* Wheeler.
Royal Palm Park.—W. S. Blatchley.
68. *Camponotus caryae rasilis* var. *pavidus* Wheeler.
Jacksonville & Atlantic Beach. (Wheeler, Jr. *N. Y. Ent. Soc.*, Vol. 18, No. 4, p. 229, (1910)).
69. *Camponotus* (*Colobopsis*) *pylartes* Wheeler.
Royal Palm Park.—W. S. Blatchley.
70. *Camponotus* (*Colobopsis*) *impressus* Roger.
Florida. (Emery, *Zool. Jahrb. Syst.* Vol. 7, p. 681, (1893)).
71. *Camponotus* (*Myrmobrachys*) *planatus* Roger.
Fort Myers.—S. O. Hill; Miami, Card's Point, Planter, Key Largo.
(Wheeler, *Ann. N. Y. Acad. Sci.* Vol. 20, pt. 2, p. 348, (1910)).
72. *Camponotus* (*Myrmoturba*) *maculatus* subsp. *tortuganus* Emery.
Dry Tortugas. (Emery, *Zool. Jahrb. Syst.* Vol. 8, p. 336, (1895)).
Royal Palm Park.—W. S. Blatchley; Lake Worth, Miami, and Planter
(Wheeler *Ann. N. Y. Acad. Sci.* Vol. 20, no. 6, pt. 2, p. 312, (1910)).
73. *Camponotus* (*Myrmoturba*) *abdominalis* subsp. *floridanus* (Buckley).
Lake Worth, Miami, Key Largo, and Coosahatchie River. (Wheeler, *Annals N. Y. Acad. Sci.* Vol. 20, pt. 2, no. 6, p. 326, (1910)).
Royal Palm Park.—W. S. Blatchley, "This, the largest and most common ant taken, occurred in numbers in rotten wood and beneath bark in the hammock and beneath a third or more of all boards and stones turned over while in search of beetles." St. Petersburg.—H. Raster; Fort Myers.—S. O. Hill; Cocoa.—H. T. Woodruff.
74. *Camponotus castaneus* Latr.
Florida. (Mayr. *Verh. Zool.-bot. Ges. Wien*, Vol. 36, p. 422, (1886)).
75. *Camponotus castaneus* subsp. *americanus* Mayr.
Quincy. (Wheeler, *Ann. N. Y. Acad. Sci.* Vol. 20, pt. 2, p. 324, 1910)).
76. *Camponotus socius* Roger.
Sanford, Green Cove Springs, (Wheeler, *ibidem*, p. 321, (1910)).
Florida. (Emery, *Zool. Jahrb. Syst.* Vol. 7, p. 670, (1893)).