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ADDITIONS TO THE CHECKLIST OF ILLINOIS SPIDERS

J. A. Beatty¹ and J. M. Nelson²

ABSTRACT

Five families and 140 species of spiders not included in former Illinois checklists are recorded. Two of these families, Antrodiaetidae and Scytodidae, and 40 of the species have been cited in earlier revisionary or other literature. The families Oonopidae, Symphytognathidae (s.lat.) and Ctenidae, and the remaining 100 species of spiders are recorded from Illinois for the first time. Locality data are given as counties only, and months of capture of mature specimens are presented. The total known spider fauna of Illinois now stands at 500 species in 27 families.

Kaston (1955) published a checklist of Illinois spiders, to which Moulder (1966) made a few additions. The former paper included 350 species (incorrectly reported in Kaston's text as 342), the latter added 13 species. As of 1966, therefore, the known Illinois spider fauna (exclusive of a few additions in the revisionary literature, to be noted below) included 363 species, three of which have since been dropped from the list as junior synonyms.

During the past 20 years, several papers on North American spiders have listed additional Illinois species, and our collecting in southern Illinois for the past 12 years has added many more. It is the purpose of this paper to bring together all new literature records since the above-mentioned checklists, and to report additional new records.

The new records are based primarily on specimens collected by us, and on those in the collection of the Department of Zoology of Southern Illinois University at Carbondale, where the entire collection is housed, except for a few specimens in the collection of the second author. The specimens on which our new records are based were taken in 18 southern Illinois counties, the majority of them in Jackson, Johnson, Pope, Union, and Williamson counties. The collecting localities for most specimens taken in Johnson, Pope, and Union counties were Ferne Clyffe State Park, the Lusk Creek valley area, and the LaRue-Pine Hills swamp region, respectively.

For each species we present, in the following order: (1) reference to previous reports in the taxonomic literature (when these exist); (2) our new records; (3) months in which specimens have been collected (mature specimens, only, unless otherwise noted); and, (4) in a few instances, some brief comments. Other data have been omitted to reduce the length of the text. A collecting period reported as "Apr.-Aug." means that mature specimens were collected in each month from April through August, inclusive.

A total of 140 species and five families not recorded by either Kaston (1955) or Moulder (1966) is included here. These comprise 100 species and three families recorded by us for the first time, and 40 species and two families cited in revisionary, distributional, or ecological papers by other authors. Thus the state fauna now known totals 500 species in 27 families. The previous checklists recorded 26 families as occurring in Illinois. The classification we use recognizes fewer families than those employed by Kaston (1955, 1972) or Moulder (1966), hence our total of only 27, after addition of five more.

ANTRODIAETIDAE

First Illinois record of the family by Coyle (1968).

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Antrodiaetus unicolor (Hentz). First Illinois record by Coyle (1971) from Jackson, Johnson, Pope and Union counties. New record: Hardin County. Males, Oct., Nov.; females, Apr.-June, Sept.-Nov.

Atypoides hadros Coyle. First Illinois record by Coyle (1968, 1971) from Jackson, Johnson, Pope and Union counties. Males, Sept.-Nov.; females, Sept., Oct.

DYSDERIDAE

Ariadna bicolor (Hentz). First Illinois record by Beatty (1970) from Bond, Jackson, Macoupin, Union and Williamson counties. New records: Johnson, Madison and Pope counties. Males, Sept.-Oct.; females, Apr.-Oct.

OONOPIDAE

This is the first Illinois record of this family.

Orchestina saltitans Banks. Jackson County. Male, June.

SCYTODIDAE

First Illinois record of the family by Gorham (1970) and Unzicker (1970).

Loxosceles reclusa Gertsch & Mulaik. Previous Illinois record from most counties in the southern third of the state by Gorham (1970), Unzicker (1970), and many local newspapers. New record: Williamson County. Males, Apr.-Oct.; females Apr., May, July-Nov.

L. rufescens (Dufour). First Illinois record by Unzicker (1972) from Fayette County.

Scytodes thoracica (Latreille). Jackson and Union counties. Males, June; females, June, July, Oct.

PHOLCIDAE

Spermophora meridionalis Hentz. Jackson County. Males, Feb., May; females, Oct.

THERIDIIDAE

Achaearanea porteri (Banks). Gallatin, Jackson, Johnson, Pope and Union counties. Males, May, June, Aug.; females, May, July, Aug., Oct., Nov.

Argyrodes cancellatus (Hentz). Jackson and Williamson counties. Males, June, July; females, June, Aug.

A. elevatus Taczanowski. Pope and Williamson counties. Males, May, Aug.; females, Aug., Sept.

A. fictitium (Hentz). Hardin, Jackson and Williamson counties. Subadult male, Oct.; females, Aug., Sept.

A. trigonum (Hentz). Jackson and Johnson counties. Males, May, June; females, May, June, Sept., Oct.

Ctenium frontata Banks. Johnson and Union counties. Male, Jan.; females, Jan., June, July, Sept., Nov.

Dipoena prona (Menge). Jackson County. Female, May.

Enoplognatha joshua Chamberlin & Ivie. Jackson County. Female, June. This may be the species recorded by Kaston (1955) as *Enoplognatha rugosa* Emerton (See Levi, 1957).

E. tecta Keyserling. First Illinois record by Levi (1957), from Cook and Piatt counties.

Euryopsis quinquemaculata Banks. Pope County. Male, May.

Latrodectus variolus Walckenaer. First Illinois record (as *L. curacaviensis*) by Levi (1959) from Coles, Effingham, Kankakee, LaSalle, Lawrence and Pope counties. New records: Gallatin, Jackson and Williamson counties. Males, May, June; females, May, June. Oct.

Phoroncidia americana (Emerton). Jackson County. Female, May.

- Stemmops ornatus* (Bryant). Jackson and Union counties. Males, June, Aug.; females, June, Oct.
- Theridion alabamense* Gertsch & Archer. First Illinois record by Levi (1957) from Pope County. New records: Gallatin, Jackson and Johnson Counties. Males, Apr.-June; females, June, Aug.
- T. albidum* Banks. First Illinois record by Levi (1957) from Champaign County. New records: Jackson and Johnson Counties. Males, June; females, June-Sept.
- T. antonii* Keyserling. Jackson and Johnson Counties. Males, June; females, June, Oct.
- T. berkeleyi* Emerton. First Illinois record by Levi (1957) from Lake, Sangamon and Winnebago counties. New record: Johnson County. Female, May.
- T. crispulum* Simon. Williamson County. Female, June.
- T. flavonotatum* Becker. Hamilton and Jackson counties. Males, May, July; females, June.
- T. llano* Levi. Pope County. Male, May-June.
- T. lyricum* Walckenaer. Jackson, Johnson, Pope and Williamson counties. Males, Aug., Sept.; females, May, June, Aug.-Oct.
- T. neshamini* Levi. First Illinois record by Levi (1957) from Madison County.
- T. pictipes* Keyserling. Jackson and Pope counties. Males, May, June, Aug.; females, May, June, Aug., Oct.
- Thymoites pallida* (Emerton). Union County. Male, Sept.

SYMPHYTOGNATHIDAE

This family has not previously been recorded from Illinois.

- Maymena ambita* (Barrows). Jackson and Pope counties. Females, May.
- Mysema guttata* (Banks). Pope County. Female, May.

LINYPHIIDAE

- Ceraticelus creolus* Chamberlin. Jackson and Massac counties. Males, June; females, Apr., June.
- C. micropalpis* (Emerton). Union County. Females, Aug., Sept.
- C. minutus* (Emerton). Pope County. Females, June, Oct., Nov.
- Ceratinopsis formosa* (Banks). Jackson and Union counties. Males, July, Sept.; females, Oct.
- Ceratinopsis laticeps* Emerton. Pope County. Females, May.
- C. purpurescens* (Keyserling). Franklin, Hamilton, Jackson, Pope, Saline and Williamson counties. Males, May, June; females, May-July.
- C. tarsalis* Emerton. Hardin County. Male, July.
- Floricomus rostratus* (Emerton). Randolph County. Male, June.
- Gonatium rubens* Blackwall. Jackson County. Female, Nov.
- Grammonota inornata* Emerton. Jackson, Pulaski, Union and Williamson counties. Males, June, Oct.; females, July, Oct.
- G. pictilis* (O.P.-Cambridge). First Illinois record by Jennings (1976) from Hardin County.
- Lepthyphantes sabulosa* (Keyserling). Jackson, Johnson, Pope and Union counties. Males, July, Oct., Nov.; females, Oct., Nov.
- Paracornicularia bicapitata* Crosby & Bishop. Union County. Males, Nov.; females, Nov.
- Phanetta subterranea* Emerton. Johnson County. Male, Dec.
- Tapinopa bilineata* Banks. Williamson County. Immatures only.

ARANEIDAE

- Acanthepeira cherokee* Levi. First Illinois record by Levi (1976). Jackson County. Male, Oct.; female, March.
- A. marion* Levi. First Illinois record by Levi (1976). Jackson County. Females, April, Oct.
- Alpaida calix* (Walckenaer). Jackson County. Female, May.

- Araneus bonsallae* (McCook). First Illinois record by Levi (1973), counties not indicated. Jackson, Madison and Williamson counties. Males, June; females, June.
- A. cingulatus* (Walckenaer). First Illinois record by Levi (1973), counties not stated. Madison County. Female, June.
- A. gemmoides* Chamberlin and Ivie. First Illinois record by Levi (1971), county not stated, probably Boone or Winnebago (see distribution map in Levi, 1971).
- A. gigas* (Leach) (= *A. bicentenarius* (McCook)). Jackson County. Female, June.
- A. guttulatus* (Walckenaer). First Illinois record by Levi (1973), county not stated, probably Clark (see distribution map in Levi, 1973).
- A. niveus* (Hentz). First Illinois record by Levi (1973), counties not stated. Records: Pope and Williamson counties. Females, Aug., Sept.
- A. partitus* (Walckenaer). First Illinois record by Levi (1973), county not stated. This is probably the species recorded by Kaston (1955) as *Conepeira miniata* (Walckenaer) (see Levi, 1973).
- Dolichognatha pentagona* (Hentz). Jackson County. Males, June; females, June, Sept., Oct.
- Hypsosinga funebris* (Keyserling). First Illinois record by Levi (1972), as *H. singaeformis* (Scheffer), county not stated. Record: Jackson County. Females, June.
- Mastophora bisaccata* (Emerton). Pope County. Female, Sept.
- M. phrynosoma* Gertsch. Jackson County. Female, Aug.
- Neoscona domiciliorum* (Hentz). Jackson and Williamson counties. Females, Sept., Oct.
- Pachygnatha brevis* Keyserling. Jackson County. Female, no date, probably March or April.
- Singa keyserlingi* McCook. First Illinois record by Levi (1972), no counties stated. Record: Jackson County. Males, Oct.; females, May.
- Tetragnatha seneca* Seeley. Jackson, Johnson, Pope and Williamson counties. Females, July-Sept.

MIMETIDAE

- Ero furcata* (Villers). Jackson, Massac and Pope counties. Males, May, Oct.; females, April.
- Mimetus epeiroides* Emerton. Jackson County. Immatures only, Aug.
- M. puritanus* Chamberlin. Jackson, Johnson, Randolph and Union counties. Males, June, July; females, June-Aug.

HAHNIIDAE

- Antistea brunnea* (Emerton). First Illinois record by Opell and Beatty (1976), county not stated. Record: Lake County. Female, May.
- Hahnia flaviceps* Emerton. First Illinois record by Opell and Beatty (1976), counties not stated. Records: Fayette, Randolph, Saline and Union counties. Males, Mar.; females, Feb.-Apr., June, Oct., Nov.

AGELENIDAE

- Agelenopsis emertoni* Chamberlin & Ivie. Jackson, Johnson and Union counties. Males, April, Sept.-Nov.; females, April, Aug.-Nov.
- A. kastoni* Chamberlin & Ivie. Gallatin, Jackson and Pope counties. Males, April, May, Oct.; females, May, June.
- Calymmaria cavicola* (Banks). Hardin and Johnson counties. Male, Oct.; female, March.
- Coras taugynus* Chamberlin. Jackson and Union counties. Males, Oct.; females, Oct.
- Cybaeus silicis* Barrows. Johnson County. Males, Oct.; females, Oct.

PISAUROIDAE

- Dolomedes albineus* Hentz. Jackson and Williamson counties. Females, June, Aug.

Pisaurina dubia (Hentz). Jackson, Massac, Union and Williamson counties. Males, April, May; females, May.

OXYOPIDAE

Oxyopes aglossus Chamberlin. Gallatin and Jackson counties. Males, May, June; females, June, Aug.

LYCOSIDAE

Lycosa georgicola Walckenaer. Jackson, Pope and Wayne counties. Males, Oct.; females, Aug., Oct.

L. hentzi Banks. Massac and Pope counties. Immatures only, Apr., Sept.

L. pulchra (Keyserling). Jackson, Johnson, Pope and Union counties. Males, Feb., Oct., Nov.; females, Feb., Oct.

Pardosa lapidicina Emerton. Jackson and Williamson counties. Males, May; females, April, August.

Pirata alachua Gertsch & Wallace. Jackson, Pope and Union counties. Males, May-July; females, May-Sept.

P. spiniger (Simon). Jackson County. Male, Nov.

GNAPHOSIDAE

Callilepis pluto Banks. First Illinois record by Platnick (1975), from Kankakee County.

Drassylus covensis Exline. Pope and Union counties. Males, May; females, May-June.

D. creolus Chamberlin & Gertsch. Pope County. Males, May; females, May.

D. fallens Chamberlin. Jackson and Pope counties. Males, June; females, June.

D. frigidus (Banks). Union County. Male, Feb.

Gnaphosa fontinalis Keyserling. First Illinois record by Platnick and Shadab (1975) from Jackson, Pope and Union counties. New record: Saline County. Males, May; females, May, July.

Haplodrassus bicornis (Emerton). First Illinois record by Platnick and Shadab (1975), from Coles County. New records: Pope County. Males, May, June; females, May.

Litopyllus rupicolens Chamberlin. Jackson County. Female, Aug.

Micaria laticeps Emerton. Massac and Pope counties. Males, April, May.

Rachodrassus exlinae Platnick and Shadab. Pope and Williamson counties. Males, June; females, March.

Zelotes duplex Chamberlin. Jackson, Massac, Pope and Saline counties. Males, April, May; females, May, June.

CLUBIONIDAE

Castianeira amoena (C. Koch). Johnson and Pope counties. Females, July, Sept.

C. crocata (Hentz). Jackson, Madison and Pope counties. Females, May-July.

C. variata Gertsch. Jackson and Union counties. Males, May, July; females, August.

Chiracanthium mildei L. Koch. Jackson County. Males, May-July, Sept., Oct.; females, April-June, Nov., Dec.

Clubiona bryantae Gertsch. First Illinois record by Edwards (1958) from "nr. Chicago," Cook County.

C. catawba Gertsch. Alexander, Hardin and Pope counties. Males, April, May; females, May, June.

C. kastoni Gertsch. Pope County. Females, May, June.

C. moesta Banks. First Illinois record by Edwards (1958), from Cook County.

Phrurotimpus illudens Gertsch. Pope County. Males, May-July; females, May, July.

Scotinella britcheri (Petrunkevitch). Jackson and Pope counties. Males, May, Oct.; females, April.

S. similis (Banks). Union County. Females, Oct.

Strotarchus piscatorius (Hentz). Jackson and Johnson counties. Males, May, June; females, June.

ANYPHAENIDAE

Anyphaena celer (Hentz). First Illinois record by Platnick (1974), from Jackson County. New record: Pope County. Males, Oct.; females, Oct.

A. maculata (Banks). First Illinois record by Platnick (1974), from Pope County. New record: Jackson County. Males, Oct.; females, Oct.

Wulfila alba (Hentz). First Illinois record by Platnick (1974), no counties stated. Jackson, Pope and Williamson counties. Males, June; females, June, August.

CTENIDAE

This is the first Illinois record of this family.

Anahita animosa (Walckenaer). Jackson County. Immature only, April.

Zora pumila (Hentz). Jackson County. Immature only, March.

THOMISIDAE

Philodromus bimuricatus Dondale & Redner. Jackson County. Female, June.

P. infuscatus Keyserling. First Illinois record by Dondale and Redner (1969), from Jackson County. New record: Johnson County (Ferne Clyffe State Park). Dondale and Redner recorded this species from Ferne Clyffe State Park, but mistakenly listed this locality as being in Jackson County. Females, Oct., Nov.

P. keyserlingi Marx. Jackson and Madison counties. Males, June, July; females, July.

P. minutus Banks. First Illinois record by Jennings (1976), from Hardin County. New records: Jackson, Pope and Williamson counties. Males, May, June; Females, May, June.

P. montanus Bryant. First Illinois record by Jennings (1976), from Hardin County. New record: Jackson County. Males, April.

P. oneida Levi. First Illinois record by Dondale and Redner (1968), from Champaign County.

P. placidus Banks. Jackson County. Male, June.

P. praelustris Keyserling. First Illinois record by Jennings (1976), from Hardin County.

P. pratariae (Scheffer). First Illinois record by Dondale and Redner (1969), from Williamson County. New records: Jackson, Pope and Union counties. Males, Aug., Sept.; females, July-Oct.

Thanatus rubicellus Mello-Leitao. Pope County. Males, October.

Xysticus texanus Banks. Perry and Union counties. Males, July; females, July.

SALTICIDAE

Ballus youngii Peckham. Pope and Union counties. Males, April; females, April.

Habronattus decorus (Blackwall). Madison County. Females, June.

Phidippus cardinalis (Hentz). Jackson County. Males, Sept., Oct.; females, Oct.

P. pius Scheffer. Pope County. Males, June.

P. putnamii (Peckham). Jackson and Johnson counties. Males, July, August.

Phlegra fasciata (Hahn). Jackson and Pope counties. Males, May.

Sassacus papenhoei Peckham. Jackson County. Females, June.

Sitticus fasciger (Simon). Jackson and Williamson counties. Males, April, Nov.; females, Jan., March, Dec.

Zygoballus sexpunctatus (Hentz). Alexander, Jackson and Pope counties. Males, June; females, April-June, Oct.

DICTYNIDAE

- Argenna obesa* Emerton. First Illinois record by Chamberlin & Gertsch (1958), no county stated, probably Cook or Wills (see distribution map in paper cited above).
- Dictyna coloradensis* Chamberlin. First Illinois record by Chamberlin & Gertsch (1958), no county stated, probably Winnebago or Boone (see distribution map in paper cited above).
- D. cruciata* Emerton. Gallatin, Jackson, Pope, Pulaski, Union and White counties. Males, May, June; females, May-July.
- D. formidolosa* Gertsch & Ivie. Pope County. Males, May, June.
- D. hentzi* Kaston. Alexander County. Males, April; females, April.
- Lathys immaculata* Chamberlin & Ivie. Williamson County. Females, February.

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