

Richard W. Merritt

Department of Entomology
Washington State University
Pullman, Washington¹

Geographic Distribution of Micropezidae in the Western United States (Diptera)²

Merritt and James (1972) have presented a review of the dipterous family Micropezidae, as it occurs in the Rocky Mountains and Pacific Coast states. This work concerns particularly the fauna of California, but all western species are treated in the keys and discussion. Geographical records for California are given in detail.

The purpose of this paper is to present the distributional data, in summary form, of each species for the western states other than California.

Subfamily Calobatinae
Genus *Cnodacophora* Czerny
Cnodacophora nasoni (Cresson)

Calobata nasoni Cresson, 1914, Entomol. News, 25: 459. Type ♂, Algonquin, Illinois (Acad. Nat. Sci. Phila., no 6078).

Geographic Range.—Alaska, Washington, and Alberta to Quebec, south to Colorado, Illinois, and New York.

Records.—COLORADO: Boulder Co., Longmont. IDAHO: Bear Lake Co., St. Charles Cyn., Wasatch Range. Latah Co., Viola. OREGON: Deschutes Co., Deschutes R. near Redmond. Douglas Co., Vincent Cr. Rd., 3 mi. E. Smith River Jct. UTAH: Cache Co., Blacksmith Fork Cyn.; Logan Cyn. Duchesne Co., Duchesne; Altonah. Morgan Co., Strawberry Valley. Rich Co., Laketown. WASHINGTON: Pacific Co., Nahcotta. Whatcom Co., Marietta. Whitman Co., Pullman. WYOMING: Platte Co., Wheatland; Yellowstone Nat. Pk.
Late April to late August.

Genus *Compsobata* Czerny
Subgenus *Compsobata* Czerny
Compsobata (*Compsobata*) *univitta* (Walker)

Calobata univitta Walker, 1949, List Insects British Museum, Dept., 4: 1049. Type?, New York, and St. Martin's Falls, Albany River, Hudson Bay [British Museum (Natural History)].

Geographic Range.—British Columbia to Quebec, south to California, New Mexico, Illinois, Maryland.

Records.—COLORADO: Boulder Co., Longmont. Larimer Co., Fort Collins. IDAHO: Boundary Co., 1 mi. N. Copeland. Latah Co., Moscow; Moscow Mtn.; Laird Park; Harvard. Lemhi Co., Salmon. Nez Perce Co., Lewiston. NEVADA: Washoe Co., Sparks; Verdi. OREGON: Columbia Co., Scappoose. Hood River Co., Hood River. Jackson Co., Squaw Lake. Klamath Co., 10 mi. N.E. Bly, Long Creek; Wood River Spring. UTAH: Boxelder Co., Brigham. Cache Co., Logan Canyon; Blacksmith Fork Cyn. Weber Co., Huntsville. WASHINGTON: Pierce Co., Puyallup. Spokane Co., Valleyford. Whitman Co., Pullman, Asotin Cr.; Lyle Grove—Pullman.

Late April to mid-August; shaded marsh.

Subgenus *Trilophyrobata* Hennig
Compsobata (*Trilophyrobata*) *jamesi* Merritt

Compsobata (*Trilophyrobata*) *jamesi* Merritt, 1971, Pan-Pac. Entomol. 47: 179. Type ♂, Nahcotta, Pacific County, Washington (Washington State University).

Geographic Range.—Washington.

Records.—WASHINGTON: Pacific Co., Nahcotta. Whatcom Co., Marietta.
May and June; coastal area.

¹ Present address—Department of Entomology and Parasitology, University of California, Berkeley.
² Scientific Paper No. 3682, College of Agriculture, Washington State University, Pullman, Washington. Work conducted under Project 9043.

Compsobata (Trilophyrobata) microfulcrum (James)

Paracalobata microfulcrum James, 1946, Entomol. News, 57: 129. Type ♂, Divide, Teller County, Geographic Range.—Colorado, Arizona.

Colorado (Colorado State University).

Records.—ARIZONA: Apache Co., Greer, 10 mi. S.W.; Phelps Bot. Area. COLORADO: Teller Co., Florissant. June and July.

Compsobata (Trilophyrobata) mima (Hennig)

Trepidaria mima Hennig, 1936, Konowia, 15: 134. Lectotype ♂ (designation by Cresson), Electra Lake, La Platte County, Colorado (Amer. Mus. Nat. Hist.).

Geographic Range.—British Columbia to Saskatchewan, south to California and Colorado.

Records.—COLORADO: El Paso Co., Colorado Pass. Gilpin Co., Tolland. Jackson Co., N. of Grizzly Cr. Camp; Walden. Larimer Co., Longs Peak Inn; Cameron Pass; Lake Agnes near Cameron Pass. La Plata Co., Electra Lake, about 37° 33' N. 107° 48' W. 8400 ft. IDAHO: Bear Lake Co., Mud Lake; St. Charles Cyn., Wasatch Range. Bonner Co., Granite L., Bonneville Co., 9.4 mi. N. Swan Valley. Boundary Co., Kalispel Bay. Camas Co., Rock Cr. R.S. Cariba Co., Wayan. Cassia Co., Rock Cr. R.S.; Minidoka N.F. Clearwater Co., Elk River. Custer Co., Challis; Stanley Basin; 5 mi. W. Stanley; Whitney. Elmore Co., Lake Comas. Franklin Co., Franklin; Preston. Fremont Co., Swan Lake. Idaho Co., Ferdinand; Lolo Pass. Latah Co., Harvard; Moscow Mt.; Troy—5 mi. N. Lemhi Co., 5 mi. S. Salmon. Valley Co., 3.3 mi. N.W. Cascade; 2.2 mi. E. Lick Cr. Summit; New Meadows. MONTANA: Lake Co., Swan Lake—Marsh. Lincoln Co., Thompson. Yellowstone N.P., Yellowstone Lake. NEVADA: Elko Co., Lamoille; Wells. OREGON: Baker Co., Haines. Clackamas Co., Mt. Hood. Crook Co., Ochoco Pass. Deschutes Co., Redmond; Tumalo; Tumalo St. Park. Douglas Co., Diamond Lake, 15 mi. S.W. Grant Co., Prairie City; Seneca. Klamath Co., Eagle Ridge—Klamath Lake; Crater Lake; Crater Lake—Sphagnum bog; Mare's Egg Spring; Klamath Falls on saw grass; Meryl Cr. 7 mi. N.W. of Bly; 3 mi. S.E. of Odell Lk.; Sprague River—5 mi. E. of Bly; Crooked Cr.; Wood River Spring. Lake Co., Cheweucan River Dam Site. Union Co., 3 mi. S.E. of Spout Springs; Tollgate Pass; North Powder. Wallowa Co., Enterprise. Wheeler Co., Mt. Creek. UTAH: Cache Co., Benson; Logan Canyon; Monte Cristo; Providence; Logan; Logan—White Pine Lake; Smithfield; Hyde Park; Amalga; Elk Park Cr.; Blacksmith Fork Canyon; Wellsville; Paradise; Logan Park Inn. Carbon Co., Gooseberry Lake—Clear Cr. Canyon. Daggett Co., Manila. Duchesne Co., Mt. Home; Cub Cr., Unita Mts.; Wolf Cr. Pass. Emery Co., Huntington Canyon; Castle Dale. Kane Co., Glendale; Kanab Cr.; Duck Cr. Camp. Millard Co., Willard Basin. Piute Co., Circleville. Rich Co., Laketown; Garden City. San Pete Co., Indianola. Summit Co., Oakely; Daniel's Canyon; Peoa, Soldier Summit; Gargoza; Kimballs. Uintah Co., Vernal. Utah Co., Francis; Linden; Payson. Wasatch Co., Heber; Meadow Spring; Wallsburg; Midway. Wayne Co., Torrey. Weber Co., Eden. WASHINGTON: King Co., North Bend. Spokane Co., Diamond Lake. Whitman Co., Pullman; Lyle Grove, Pullman. WYOMING: Teton Co., Jenny L. Gr., Teton N.P. Yellowstone National Park, W. Yellowstone; Old Faithful; Yellowstone L., Geyser; Indian Cr.; Madison Jct.; Turbid Lake.

Late April to November; marsh and meadow habitats at altitudes up to 10,000 feet.

Compsobata (Trilophyrobata) pallipes (Say)

Calobata pallipes Say, 1823, J. Acad. Nat. Sci. Philadelphia, 3: 97. Type, Missouri; lost.

Geographic Range.—Alaska, Alberta to New Brunswick, south to Nevada, and New Jersey.

Records.—COLORADO: Boulder Co., Boulder; Lodge. Larimer Co., Pingree. Weld Co., Roggen. June and July.

Subfamily Micropezinae

Genus *Micropeza* Meigen

Subgenus *Micropeza* Meigen

Micropeza (Micropeza) abnormis Cresson

Micropeza abnormis Cresson, 1938, Entomol. News, 49: 72. Type ♂, Baboquivari Mountains, Pima County, Arizona (Univ. of Kans.).

Geographic Range.—Known only from Arizona.

Records.—ARIZONA: Pima Co., Santa Rita Mts.; Molino Basin; Santa Catalina Mts. Santa Cruz Co., Ruby; Madera Cyn.; Sycamore Cyn. near Ruby; Molina Basin; Santa Catalina Mts.; Calabasas, 6 mi. W. Nogales. July and August.

Micropeza (Micropeza) ambigua Cresson

Micropeza turcana ambigua Cresson, 1908, Trans. Amer. Entomol. Soc., 34: 3. Lectotype ♂ (designation by Cresson) Cloudcroft, New Mexico (Acad. Nat. Sci. Phila., no. 6011).

Geographic Range.—New Mexico, Arizona, California.

Records.—ARIZONA: Coconino Co., Grand Canyon—7000 ft.; Oak Creek Cyn. NEW MEXICO: Otero Co., Cloudcroft; Highrolls. Sandoval Co., Jemez Mts.

Late May to mid-July.

Micropeza (Micropeza) atra Cresson

Micropeza atra Cresson, 1938, Entomol. News, 49: 74. Type ♀, Flagstaff, Coconino County, Arizona (U.S. Nat. Mus., no. 27059).

Geographic Range.—Arizona, New Mexico.

Records.—NEW MEXICO: Sandoval Co., Jemez Mts. UTAH: Iron Co., Bear Valley. May and June.

Micropeza (Micropeza) compar Cresson

Micropeza compar Cresson, 1938, Entomol. News, 49: 73. Type ♂, Huachuaca Mountains, Arizona (Univ. of Kans.).

Geographic Range.—Arizona, New Mexico.

Records.—ARIZONA: Apache Co., 5 mi. S. McNary. Cochise Co., Chiricahua Mts.; Flys Peak, 85-9700 ft.; S.W. Res. Station, 5 mi. W. Portal; Paradise. Coconino Co., Manzanita Cpgd; Oak Creek Cyn.; Williams, Alt. 7000 ft. Graham Co., Graham Mt.; Pinecrest. Greenlee Co., 22 mi. N. Clifton. Navajo Co., Whiteriver. Pima Co., Marshall Gulch; Sta. Catalina Mts.; Rincon Mts., 7500 ft. Pinal Co., Pinal Mts. Yavapai Co., Mingus Mt.; 1 mi. S.W. Mingus Mt. NEW MEXICO: Carton Co., 87 mi. N.W. Silver City, 5900 ft. Taken on *Robinia neomexicana*, and *Apocynum* sp. (Indian hemp); June and July; mountain areas.

Micropeza (Micropeza) lineata Van Duzee

Micropeza lineata Van Duzee, 1926, Pan-Pac. Entomol., 3: 2. Type ♂, Utah Lake, Lehi, Utah County, Utah (Calif. Acad. Sci., no. 1879).

Geographic Range.—Alberta to Manitoba, south to California, New Mexico and Nebraska.

Records.—ARIZONA: Cochise Co., Huachuca Mts.; Chiricahua Mts.; Ramsey Cn. Coconino Co., Imperial; Flagstaff. Navajo Co., Taylor. Yavapai Co., Mingus Mt. COLORADO: Baca Co., 20 mi. S. of Walsh. Bent Co., Las Animas. Boulder Co., Boulder; 6 mi. N. of Boulder. Chaffee Co., Salida. Larimer Co., Ft. Collins. Moffat Co., Maybell. Pueblo Co., Pueblo. IDAHO: Bear Lake Co., Dingle. Elmore Co., Hammett. Franklin Co., Whitney; Preston. Gooding Co., Bliss. Jefferson Co., 4 mi. E. Terreton; 7 mi. W. Fort Hall. Nez Perce Co., Lewiston. Twin Falls Co., Salmon Crk., 5 mi. S. Castleford. MONTANA: Gallatin Co., Three Forks. Park Co., Gardiner. NEW MEXICO: Otero Co., Highrolls. UTAH: Beaver Co., Beaver. Cache Co., Logan; Wellsville; Millville; Hyrum. Daggett Co., Antelope; Manila. Davis Co., Farmington. Duchesne Co., Roosevelt; Indian Cyn. Millard Co., Delta. Rich Co., Garden City; Greendale. Salt Lake Co., Murray. Sevier Co., Monroe; Elsinore. Tooele Co., Ophir Mts. Utah Co., American Fork; Spanish Fork; Provo; Lehi. Washington Co., St. George. Weber Co., Kaneshville; Ogden; Hooper; Plain City. WASHINGTON: Whitman Co., Kamiak Butte. WYOMING: Carbon Co., Fremont Co., nr. Lander; Little Wind R. Niobrara Co., Lance Cr.; Buck Creek; 40 mi. N. Lusk. Late May to mid-August.

Micropeza (Micropeza) nitidor Cresson

Micropeza nitidor Cresson, 1936, Trans. Amer. Entomol. Soc., 44: 319. Type ♀, Bear Wallow, Santa Catalina Mts., Arizona (Amer. Mus. Nat. Hist.).

Geographic Range.—Known only from Arizona.

Records.—ARIZONA: Cochise Co., Chiricahua Mts., 8000 ft. Graham Co., Arcadia For. Cmp.; Pinaleno Mts., 6700 ft. Pima Co., Catalina Mts.; Mt. Lemmon, Sta. Catalina Mts., 9000 ft.; Mud Springs, Sta. Catalinas, 32° 23' 3" N., 110° 45' W.; 6500 ft. Alt.; Bear Wallow, Sta. Catalina Mts. June and July; mountain areas.

Micropeza (Micropeza) setaventrif Cresson

Micropeza setaventrif Cresson, 1936, Entomol. News, 49: 74. Type ♂, Fort Duchesne, Utah (Acad. Nat. Sci. Phila., no. 6536).

Geographic Range.—Utah, Colorado and North Dakota, south to Arizona and New Mexico.

Records.—ARIZONA: Apache Co., Springerville. Navajo Co., Whiteaver. COLORADO: Las Animas Co., Stonewall. NEW MEXICO: Sandoval Co., Jemez Springs. San Miguel Co., Pecos. UTAH: Box Elder Co., Brigham Cyn. Cache Co., Smithfield; Avon; Logan Cyn.; Providence. Salt Lake Co., Murray. Sevier Co., Nibley. Weber Co., Hooper. Late June to mid-August.

Micropeza (Micropeza) turcana Townsend

Micropeza turcana Townsend, 1892, Trans. Kans. Acad. Sci., 13: 136. Lectotype ♂ (designation by Cresson) Turkey Tanks, Coconino County, Arizona (Univ. of Kans.).

Geographic Range.—Alberta to Manitoba, south to Arizona and Kansas.

Records.—ARIZONA: Coconino Co., 8 mi. N.E. Flagstaff. COLORADO: Baca Co., 28 mi. S. of Walsh. Weld Co., Roggen. IDAHO: Freemont Co.; St. Anthony, sand dunes. UTAH: Grand Co., Castle Valley. Taken on *Cleome serrulata*; May to July.

Micropeza (Micropeza) unca Merritt

Micropeza (Micropeza) unca Merritt, 1971, Pan-Pac. Entomol. 47: 181. Type ♂, Davis, Yolo County, California (Univ. of Calif., Davis).
Geographic Range.—Known only from California.

Micropeza (Micropeza) ventralis Cresson

Micropeza ventralis Cresson, 1930, Trans. Amer. Entomol. Soc. 56: 356. Type ♂, Tacubaya, Distrito Federal, Mexico (U.S. Nat. Mus., no. 43149).
Geographic Range.—Mexico (D.F.), Arizona.
Records.—MEXICO: Tacubaya, Distrito Federal.

Subgenus *Neriocephalus* Enderlein

Micropeza (Neriocephalus) bisetosa Coquillett

Micropeza bisetosa Coquillett, 1902, J. New York Entomol. Soc. 10: 177. Type ♂, Prescott, Arizona (U.S. Nat. Mus., no. 6626).
Geographic Range.—Arizona, New Mexico.
Records.—ARIZONA: Cochise Co., Sunnyside Cyn., Huachuca Mts. Pima Co., Santa Rita Mts.; Madera Cyn.; Bear Wallow; St. Catalina Mts., 32° 25.3' N. 110° 44' W. Santa Cruz Co., Ruby; Tumacacori Mt.; W. Sl. Patagonia Mts. Yavapai Co., Prescott. NEW MEXICO: Grant Co., Silver City.
July to September; mountain areas.

Micropeza (Neriocephalus) californica Van Duzee

Micropeza californica Van Duzee, 1926, Pan-Pac. Entomol., 3: 1. Type ♀, Palm Springs, Riverside County, California (Calif. Acad. Sci., no. 1878).
Geographic Range.—Known only from California.

Micropeza (Neriocephalus) ruficeps Wulp

Micropeza ruficeps Wulp, 1897, Biologia Centrali-Americana, Dipt. 2: 365. Type ♀, Northern Sonora, Mexico [British Museum (Natural History)].
Geographic Range.—Mexico, California, Arizona.
Records.—ARIZONA: Cochise Co., Portal, 1 mi. S.; Cave Cr. Ranch; Chiri Mts. 5000 ft.; S. Fork, Cave Cr.; S.W. Res. Sta.; 5 mi. W. Portal. Pima Co., Sabino Cyn.; 8 mi. N. Vail; Htchk. Hwy.; Mi. 4, Catalina Mts.; Lower Sabino Cyn.; Santa Catalina Mts.; Tucson; Madera R.S. Sta., St. Rita Mts.; E. Slope Coyote Mts.; ½ mi. N. Mendoza Cyn. Santa Cruz Co., Patagonia. Taken on *Franseria deltoidea*.
May to August.

Micropeza (Neriocephalus) stigmatica Wulp

Micropeza stigmatica Wulp, 1897, Biologia Centrali-Americana, Dipt. 2: 366. Cotypes, Mexico, several localities [British Museum (Natural History)].
Geographic Range.—Arizona, New Mexico, Kansas, Texas, south to Argentina.
Records.—ARIZONA: Cochise Co., Douglas; San Bernardo Ranch; Bowie; San Simeon. Gila Co., Winkleman. Graham Co., Thatcher; Indian Hot Springs; Stafford. Greenlee Co., Duncan. Maricopa Co., Tempe. Pima Co., Tucson; Sahuarita; Continental. Santa Cruz Co., Amado; Tubac. Yavapai Co., Cottonwood. NEW MEXICO: Hidalgo Co., 1 mi. S. Rodeo; 18 mi. N. Rodeo. Taken on corn and alfalfa.
March to late August.

Subfamily *Taeniapterinae*

Genus *Taeniaptera* Macquart

Taeniaptera lasciva (Fabricius)

Musca lasciva Fabricius, 1798, Entomologia Systematica, Suppl., 564. Type (sex?), French Gniana (Location of type unknown).
Geographic Range.—Lower California, Texas, Georgia, Florida, Neotropical.
Records.—TEXAS: Cameron Co., Brownsville.

Literature Cited

Merritt, R. W., and M. T. James. 1972. The Micropezidae of California (Diptera). Bull. Calif. Insect Survey. (In press).

Received May 13, 1971.

Accepted for publication August 23, 1971.