A reevaluation of the North and Central American *Arctodiaptomus dorsalis* (Marsh, 1907) (Calanoida, Diaptomidae), with reallocation to the genus *Mastigodiaptomus* and description of a new species

Sarahi JAIME, Martha A. GUTIÉRREZ-AGUIRRE, Adrián CERVANTES-MARTÍNEZ, Eduardo SUÁREZ-MORALES & Manuel ELÍAS-GUTIÉRREZ

Supplementary File 1. Barcode material analyzed in this study, including sequences of Mexican *Mastigodiaptomus* Light, 1939, *Leptodiaptomus* Light, 1938, two species of *Arctodiaptomus* Kiefer, 1932 and *Metadiaptomus asiaticus* (Uljanin, 1875). * Represent material from the same ecoregion of the syntypes of *Mastigodiaptomus dorsalis* (Marsh, 1907) comb. nov.

Species	Country	Exact site	BIN	n	Sampled date	Lat (N)	Long (W)
Mastigodiaptomus dorsalis	Mexico	Bacalar Lake, Cocalitos Sinkhole	BOLD:ACE4750	15	17/08/2016	18.65	-88.409
Mastigodiaptomus dorsalis	Mexico	Xulha Lake, Quintana Roo	BOLD:ACE4750	1	01/07/2015	18.551	-88.458
Mastigodiaptomus dorsalis	Mexico	Huay Pix, Quintana Roo	BOLD:ACE4750	2	07/09/2011	18.511	-88.422
Mastigodiaptomus dorsalis	Mexico	Cenote Azul	BOLD:AEM6544	13	27/01/2017	18.646	-88.412
Mastigodiaptomus dorsalis	Guatemala	Peten Lake, Peten	BOLD:ACE4752	3	09/03/2006	16.981	-89.712
Mastigodiaptomus dorsalis	Mexico	Cenote Siijil Noh Ha, Quintana Roo	BOLD:ABZ3765	4	22/08/2019	19.475	-88.052
Mastigodiaptomus dorsalis	Mexico	Cenote Chancah Veracruz, Quintana Roo	BOLD:ABZ3765	1	22/08/2019	19.486	-87.988
Mastigodiaptomus dorsalis	Mexico	Bacalar Lake, Cocalitos Sinkhole	BOLD:ABZ3765	1	01/05/2016	18.65	-88.409
Mastigodiaptomus dorsalis	Mexico	Cenote Km 48, Quintana Roo	BOLD:ABZ3765	5	24/08/2019	19.943	-87.794
Mastigodiaptomus dorsalis	Mexico	Laguna Encantada, Quintana Roo	BOLD:ABA0903	5	07/09/2011	18.499	-88.39
Mastigodiaptomus dorsalis	Mexico	Laguna Negra, Quintana Roo	BOLD:ABA0903	7	07/09/2011	18.5	-88.394
Mastigodiaptomus dorsalis	Mexico	Laguna Puente Milagros I, Quintana Roo	BOLD:ABA0903	2	14/09/2011	18.503	-88.451
Mastigodiaptomus dorsalis	Mexico	Puente Milagros River, Quintana Roo	BOLD:ABA0903	2	14/09/2011	18.493	-88.446
Mastigodiaptomus dorsalis	Guatemala	Lachua, Alta Verapaz	BOLD:AAE0729	3	05/03/2006	15.921	-90.671

Mastigodiaptomus dorsalis	Mexico	Pond 1 Highway Jonuta-Escarcega, Campeche	BOLD:AAE0729	4	26/06/2011	18.109	-92.079
Mastigodiaptomus dorsalis	Mexico	Pond 2 Highway Jonuta-Escarcega, Campeche	BOLD:AAE0729	7	26/06/2011	18.063	-92.017
Mastigodiaptomus dorsalis	Mexico	Silvituc lagoon, Campeche	BOLD:AAE0729	2	26/06/2011	18.643	-90.294
Mastigodiaptomus dorsalis	Mexico	Laguna Vernet, Tabasco	BOLD:AAE0729	1	25/06/2011	17.877	-92.55
Mastigodiaptomus dorsalis *	USA	Wet flatwoods, Florida	BOLD:AAV0647	2	30/03/2010	30.367	-87.407
Mastigodiaptomus cucapa	USA	Purdue Univesity, Indiana	BOLD:AEC2215	4	10/07/2019	40.504	-87.015
Mastigodiaptomus cucapa	Mexico	Mocuzary, Sonora	BOLD:AAF4891	2	30/05/2006	27.231	-109.079
Mastigodiaptomus cucapa	USA	Mason Park, California	BOLD:AAF4891	5	22/11/2017	33.65	-117.833
Mastigodiaptomus cucapa	USA	Laguna Niguel Park, California	BOLD:AAF4891	1	15/02/2018	33.55	-117.7
Mastigodiaptomus siankaanensis	Mexico	Kohunlich, Quintana Roo	BOLD:AAF12222	2	31/07/2005	18.447	-88.825
Mastigodiaptomus siankaanensis	Mexico	Tres Garantías, Quintana Roo	BOLD:AAF12222	1	22/05/2011	18.369	-89.013
Mastigodiaptomus siankaanensis	Mexico	Aguada limite de la reserva de Sian Ka'an, Quintana Roo	BOLD:AAF12222	12	23/09/2014	19.799	-87.828
Mastigodiaptomus albuquerquensis	Mexico	Rancho Grande to Zacatecas, Zacatecas	BOLD:AAC4388	1	05/10/2004	23.218	-102.871
Mastigodiaptomus albuquerquensis	Mexico	Km 55 Cd. Juarez to Casas Grandes, Chihuahua	BOLD:AAC4388	2	09/10/2012	31.554	-107.182
Mastigodiaptomus albuquerquensis	Mexico	El Salvador, Durango	BOLD:AAC4390	2	03/10/2004	26.067	-104.974
Mastigodiaptomus patzcuarensis	Mexico	La Cruz I, Guanajuato	BOLD:AAC4008	3	06/10/2004	21.193	-100.574
Mastigodiaptomus patzcuarensis	Mexico	Patzcuaro lake, Michoacán	BOLD:AAC4390	1	30/12/2008	19.597	-101.652
Mastigodiaptomus patzcuarensis	Mexico	La Goleta, Estado de México	BOLD:AAC4008	1	15/07/2005	20.07	-99.556
Mastigodiaptomus patzcuarensis	Mexico	Flor del Bosque, Puebla	BOLD:ABZ7048	3	23/05/2007	19.036	-98.228
Mastigodiaptomus patzcuarensis	Mexico	Atlangatepec, Tlaxcala	BOLD:ABZ7048	1	18/11/2014	19.56	-98.196
Mastigodiaptomus patzcuarensis	Mexico	Ignacio Ramírez Dam, Estado de México	BOLD:ABZ7048	4	22/06/2011	19.461	-99.797

Mastigodiaptomus patzcuarensis	Mexico	Cuitzeo, Michoacán	BOLD:AAC4008	1	18/07/2005	19.953	-101.126
Mastigodiaptomus patzcuarensis	Mexico	Chapultepec lake, Ciudad de Mexico	BOLD:ABZ7048	9	08/03/2017	19.423	-99.185
Mastigodiaptmus cihuatlan	Mexico	Las Lagunas, Guerrero	BOLD:AAJ1590	1	09-29-2004	17.878	-101.75
Mastigodiaptmus cuneatus	Mexico	Laguna El Camaron-Insurgentes, Sinaloa	BOLD:ACX8828	1	08-28-2014	23.236	-106.438
Mastigodiaptomus nesus	Mexico	La Esperanza, Quintana Roo	BOLD:AAG9522	4	14/06/2007	19.471	-88.029
Mastigodiaptomus nesus	Mexico	Minicenote, Quintana Roo	BOLD:AAG9522	2	01/08/2010	19.717	-88.071
Mastigodiaptomus alexei	Mexico	Camalote, Veracruz	BOLD:AAF1220	3	10/09/2005	22.012	-98.227
Mastigodiaptomus cf. *reidae*	Mexico	Kohunlich, Quintana Roo	BOLD:AAC8049	9	31/07/2005	18.447	-88.825
Mastigodiaptomus cf. *reidae*	Mexico	Arroyo Calakmul, Campeche	BOLD:AAC8049	2	28/09/2014	18.123	-89.79
Mastigodiaptomus ha	Mexico	25 hrs lagoon, Quintana Roo	BOLD:AAU1038	11	11/10/2020	20.311	-86.937
Mastigodiaptomus ha	Mexico	Cenote Verde Lucero, Quintana Roo	BOLD:AAU1038	2	30/07/2010	20.866	-87.077
Leptodiaptomus novamexicanus	Mexico	Pond in Ixtlahuaca, Estado de Mexico	BOLD:AAB2389	6	06/07/2006	19.85	-99.117
Leptodiaptomus novamexicanus	Mexico	Green House, Estado de Mexico	BOLD:AAB2389	2	06/07/2006	19.25	-99.617
Leptodiaptomus garciai	Mexico	Alchichica, Puebla	BOLD:AAD0924	9	17/05/2007	19.413	-97.402
Leptodiaptomus garciai	Mexico	Quechulac, Puebla	BOLD:AAD0924	6	17/05/2007	19.375	-97.354
Leptodiaptomus garciai	Mexico	Valsequillo, Puebla	BOLD:AAD0924	6	23/05/2007	18.909	-98.16
Leptodiaptomus cuauhtemoci	Mexico	Zempoala lake, Morelos	BOLD:AAZ8481	12	23/06/2011	19.052	-99.314
Leptodiaptomus siciloides	Mexico	Angostura near Grieta, Sonora	BOLD:ADM0938	4	01/06/2006	30.172	-109.52
Metadiaptomus asiaticus	-	-	BOLD:ADX0174	5	03/04/----	-	-
Arctodiaptomus laticeps	Norway	Hardangerfjorden	BOLD:AAD8192	3	14/12/2016	60.126	6.547
Arctodiaptomus stewartianus	-	-	BOLD:ADW9770	2	-	-	-