

## SCIENTIFIC NOTE

### NEW RECORDS OF MOSQUITO SPECIES FOR CENTRAL AND CUYO REGIONS IN ARGENTINA

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**ABSTRACT.** The geographical distributions of *Aedes aegypti*, *Culex apicinus*, *Cx. educator*, *Cx. interfor*, *Cx. quinquefasciatus*, *Mansonia humeralis*, *Ma. indubitans*, and *Psorophora albigenulvaripes* are extended, including new records for 2 provinces.

**KEY WORDS** Culicidae, distribution, Córdoba, San Luis

This contribution updates the mosquito fauna of Argentina and extends its geographical distribution in the Córdoba and San Luis Provinces. Data were collected as part of an arbovirus and entomological surveillance project carried out in the southern coast of the Mar Chiquita Lake (Córdoba Province) and in San Luis Province (Epidemiological Program). The 28 Culicidae species from Mar Chiquita Lake (Ludueña Almeida et al. 2004), and 4 species for San Luis Province (Rossi et al. 2006) are extended to 33 and 8 species, respectively.

Adult mosquitoes were collected with the use of Centers for Disease Control and Prevention (CDC) light traps baited with CO<sub>2</sub> and from human volunteers using mechanical aspirators. Fourth instars were collected with a 300-ml dipper. *Culex* larvae were individually reared to obtain associated immature and adult stages for identification. Species were identified from larvae, adult males, and females (Forattini 2002). Locality, elevation in meters above sea level, collection date, number and stage of the collected specimens, and collectors follow:

*Aedes (Stegomyia) aegypti* L. San Luis Province: Villa Mercedes (33°40'40"S, 65°27'18"W; 515 m), Candelaria (32°3'28"S, 65°49'59"W; 416 m), San Luis (33°17'9"S, 66°20'8"W; 726 m), Santa Rosa del Conlara (32°20'35"S, 65°11'38"W; 389 m), and Villa de Merlo (32°20'58"S, 65°1'15"W; 855 m); March, 2007;

more than 100 larvae and more than 50 females; collectors: G. Benítez Musicant and C. Cano.

*Culex (Culex) apicinus* Philippi. San Luis Province: Villa de Merlo; March, 2007; 3 larvae, 5 females, and 9 males from individual rearings; collectors: G. Benítez Musicant and C. Cano.

*Culex (Culex) interfor* Dyar. Córdoba Province: Altos de Chipión (30°54'S, 62°18'W; 81 m); March (1 male from individual reared), April (1 male and 1 female from individual reared) 2005; collector: M. Laurito. San Luis Province: Candelaria; March, 2007; 7 females and 3 males from individual rearings; collectors: G. Benítez Musicant and C. Cano.

*Culex (Culex) quinquefasciatus* Say. San Luis Province: Villa Mercedes and Candelaria; March, 2007; 2 males from individual rearings; collectors: G. Benítez Musicant and C. Cano.

*Culex (Melanoconion) educator* Dyar & Knab. Córdoba Province: Altos de Chipión; January (1 female) and April (1 female) 2005; collector: A. Visintin.

*Mansonia (Mansonia) humeralis* Dyar & Knab. Córdoba Province: Altos de Chipión; January, 2005 (3 females); collector: A. Visintin.

*Mansonia (Mansonia) indubitans* Dyar & Shannon. Córdoba Province: Altos de Chipión; March (4 females), April (2 females) and May (8 females) 2005; collector: A. Visintin.

*Psorophora (Janthinosoma) albigena* (Peryassu)/*varipes* (Coquillett). Córdoba Province: Altos de Chipión; November (11 females) and December (2 females) 2004, March (10 females), April (54 females), and May (1 female) 2005; collector: A. Visintin.

The geographical distribution for *Ae. aegypti* is extended to the temperate San Luis Province, the first report for this province. *Culex apicinus* was previously listed from subtropical, temperate and arid zones of the country, and its southern limit in the Cuyo region is extended to San Luis Province. *Culex interfor*, registered from subtropical and

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temperate zones of Argentina, extends its southern distribution in the temperate zone (San Luis Province and Mar Chiquita Lake). The distribution of *Cx. quinquefasciatus* is extended to another temperate province, San Luis. The southern distribution of *Cx. educator* is extended from the subtropical to a temperate area; this is the first record for Córdoba Province. *Mansonia humeralis* distribution is extended in the temperate zone; this being the first record for Córdoba Province. *Mansonia indubitans* and *Ps. albigenul varipes* are listed for the first time in the temperate area of Mar Chiquita Lake.

Voucher specimens confirming these new records are deposited in the mosquito collection of Centro de Investigaciones Entomológicas de Córdoba, Universidad Nacional de Córdoba.

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