



# *Tachymenis peruviana* Wiegmann, 1834 (Serpentes, Dipsadidae) in Argentina: geographic distribution and a new province record

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## Abstract

*Tachymenis peruviana* Wiegmann, 1834 (Serpentes, Dipsadidae) is known from Peru, Bolivia, northern Chile and northwestern Argentina. In northwestern Argentina, the species is distributed from Jujuy to Catamarca province. In this study, we present the accurate distribution of the species in Argentina and the first records from La Rioja province, at 2000 and 3000 m a.s.l. in the Famatina region, extending the known distribution to the southwest.

## Key words

Highlands, snakes, *Tachymenini*.

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## Introduction

Species of the genus *Tachymenis* are small to moderate-sized snakes, distributed from Peru to southern Argentina and Chile. The genus is represented in Argentina by 2 taxa: *Tachymenis chilensis chilensis*, known to inhabit southern Chile and the Argentine provinces of Neuquén, Río Negro, and Chubut (Scrocchi et al. 2010, Giraudo et al. 2012a, b, Nenda et al. 2017), and *Tachymenis peruviana*, which was known until now in Peru, Bolivia, northern Chile, and the northwestern Argentine provinces of Jujuy, Salta, Tucumán and Catamarca (Ceí 1993, Giraudo and Scrocchi 2002, Scrocchi et al. 2006, Giraudo et al. 2012a).

In this wide range of distribution, *T. peruviana* dwells from 1800 to 4400 m a.s.l. in areas with shrubs

and grasslands from the biogeographic provinces of Yungas, Prepuna, Puna, and Altoandina (Aparicio 1994, Cabrera and Willink 1980, Giraudo and Scrocchi 2002). *Tachymenis peruviana* is viviparous, diurnal species, frequently found near rivers, lagoons, small streams, where it feeds on anurans (Ceí 1993, Williams and Scrocchi 1994, Scrocchi et al. 2006, Szumik et al. 2016, Demangel 2016, Cabrera et al. 2017) or in sandy or rocky areas, where it feeds on lizards. This opistoglyph snake has strong toxicity and fatalities by bites were reported for its relative *T. chilensis* (Scrocchi et al. 2006).

The species is a generalist in habitat use and is commonly found, evaluated as “Not threatened” in Argentina (Giraudo et al. 2012b), and Least Concern by the IUCN (2018). The detailed distribution of this species is not known in Argentina.



**Figure 1.** *Tachymenis peruviana*. Specimen from Cueva de Logroño. La Rioja. Argentina.

## Methods

We revised 112 specimens of the species, which belong to the following Argentine museums:

CENAI. Centro Nacional de Investigaciones Iológicas. Housed at División Herpetología, Museo Argentino de Ciencias Naturales “Bernardino Rivadavia”, Buenos Aires, Argentina.

FML. Herpetological Collection of Fundación Miguel Lillo, San Miguel de Tucumán, Argentina.

IBIGEO-R. Instituto de Bio y Geociencias del NOA. CONICET-Universidad Nacional de Salta, Salta, Argentina.

MACN. Herpetological Collection of Museo Argentino de Ciencias Naturales “Bernardino Rivadavia”, Buenos Aires, Argentina.

MCN-UNSa. Museo de Ciencias Naturales, Universidad Nacional de Salta. Salta. Argentina.

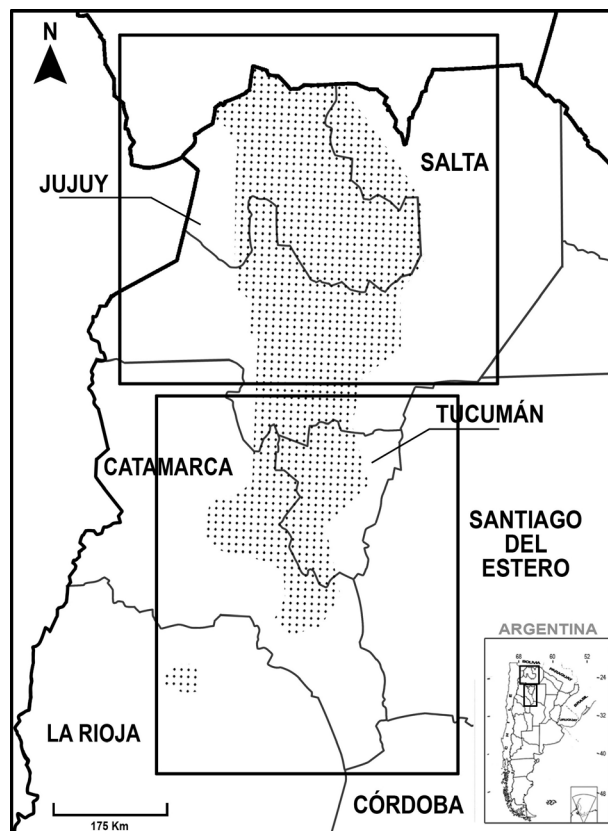
The specimens were identified using the characters mentioned by Cei (1993) and Scrocchi et al. (2006). We use the decimal geographic coordinates and altitudes of the collections databases, rounded to 4 decimal places.

## Results

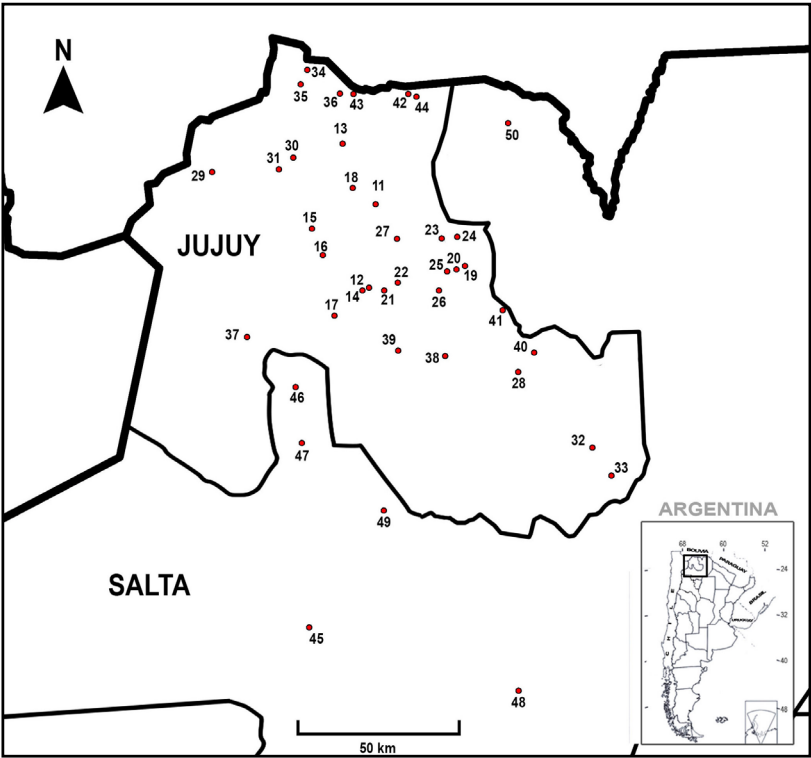
The revision of the specimens allowed us to present the distribution of the species in the country and also the first records from La Rioja province (Other material examined and Figures 2–4).

**New records.** ARGENTINA. La Rioja: Departamento Chilecito: El Parrón, 3rd Station of the cableway from Chilecito to La Mexicana mine, ( $-29.0804^\circ$ ,  $-67.6425^\circ$ ,

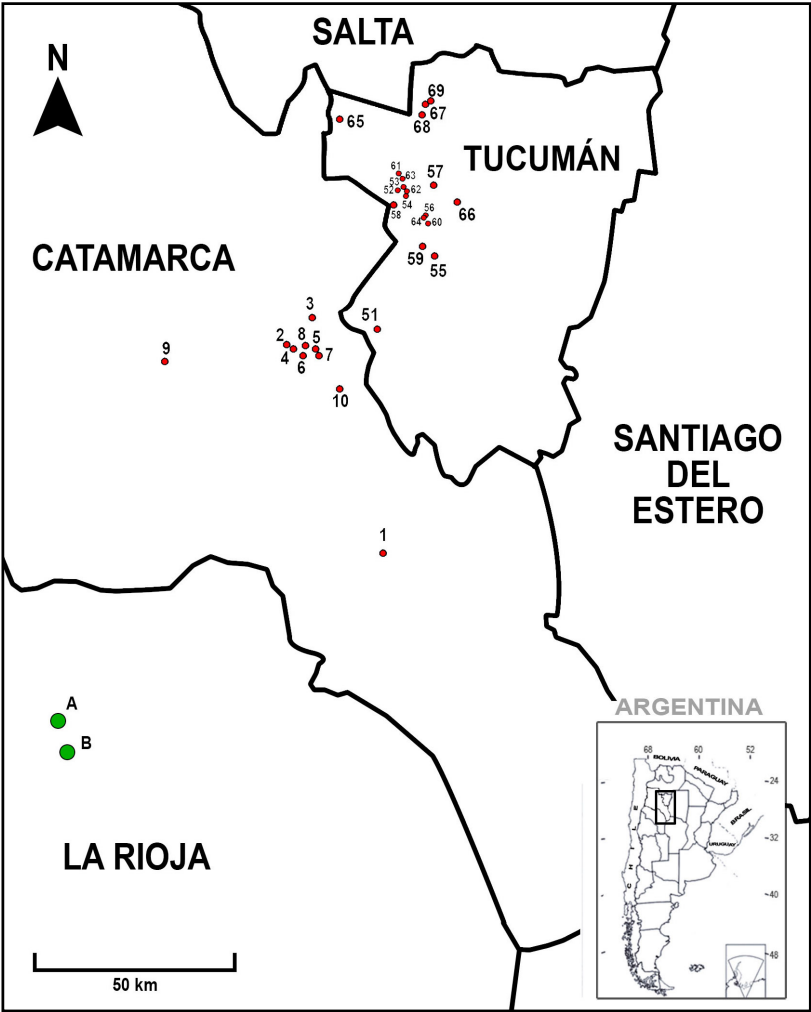
2000 m a.s.l., G. A. Gallardo, 01/28/2015, 1 ex. FML 30163); found active at 18:45 h. A second specimen (Fig. 1, no voucher specimen) was seen in Departamento



**Figure 2.** General distribution of *Tachymenis peruviana* in Argentina. The northern area is shown in Figure 3 and the southern in Figure 4. The disjunct area represents new records.



**Figure 3.** Northern localities in the distribution of *Tachymenis peruviana* from Argentina. The numbers refer to material examined.



**Figure 4.** Southern localities in the distribution of *Tachymenis peruviana* from Argentina. The numbers refer to material examined. Green dots represent the new locality records from La Rioja province: A. Cueva de Logroño. B. El Parrón (FML 30163).

Famatina: Cueva de Logroño ( $-28.9350^{\circ}$ ,  $-67.6842^{\circ}$ , 3000 m a.s.l. photographed by E. Luna Toledo, 04/14/2011), near an ocher mine. Both localities are on the Sistema de Famatina, an extra-andean geologic system located from  $27^{\circ}$  to  $31^{\circ}$  S in northwestern Argentina, with elevations that reaches 6000 m a.s.l. (Ramos 1999).

**Other material examined.** Figure 2 shows the general distribution of *Tachymenis peruviana* in Argentina. The numbers that precede each locality serve as reference for Figures 3 and 4.

ARGENTINA. Catamarca: Tranquitas (not on the map, without collector information, 1950, MACN10283). Departamento Ambato: **1.** Cerro El Manchao ( $-28.2864^{\circ}$ ,  $-65.9844^{\circ}$ , 2300 m a.s.l., R.F. Laurent, 10/22–29/1970, 1 ex. FML00621, A. L. Ocampos, 01/19/1971, 1 ex., CENAI2955); Río Los Cajones, Cerro El Manchao ( $-28.2810^{\circ}$ ,  $-66.0202^{\circ}$ , 3100 m a.s.l. S. Halloy, 10/23/1979, 1 ex., FML01155); and La Cumbrecita, Cerro El Manchao ( $-28.2865^{\circ}$ ,  $-66.0122^{\circ}$ , 2800 m a.s.l. O. Pagaburo, O. Budin, 10/25/1979, 1 ex. FML01156). Departamento Andalgalá: **2.** Capillitas ( $-27.3463^{\circ}$ ,  $-66.3902^{\circ}$ , 3500 m a.s.l. R.F. Laurent, 02/21/1968, 1 ex. FML00571; E. Terán, O. Pagaburo, 03/18/1982, 1 ex. each FML01344–01345; G. Scrocchi, G. Gallardo, 02/14/2006, 1 ex. FML16986). **3.** El Arenal, 19 km al NE de Capillitas ( $-27.2305^{\circ}$ ,  $-66.2738^{\circ}$ , R.F. Laurent, 02/21–23/1968, 1 ex. FML00586; R.F. Laurent, 01/21–23/1968, 1 ex. FML00624). **4.** Quebrada La Toma, Capillitas ( $-27.3538^{\circ}$ ,  $-66.3740^{\circ}$ , 3200 m a.s.l. E. Terán, O. Pagaburo 03/23/1982, 1 ex. FML01343). **5.** Puesto Río Candado ( $-27.3964^{\circ}$ ,  $-66.2556^{\circ}$ , G. Scrocchi, 05/20/1997, 1 ex. FML06600). **6.** Cerca de El Globo ( $-27.3541^{\circ}$ ,  $-66.3234^{\circ}$ , 4000 m a.s.l., G. Scrocchi, 03/17/1998, 1 ex. FML07135). **7.** Quebrada Melcho, Campamento Agua Rica ( $-27.3833^{\circ}$ ,  $-66.2666^{\circ}$ , J. Brancato, C. Boero, 03/19/1998, 1 ex. FML07139). **8.** Filo de Loma Baya, Área de Cumbre ( $-27.3822^{\circ}$ ,  $-66.3355^{\circ}$ , 3100 m a.s.l., J. Brancato, 03/20/1998, 1 ex. FML07142). **9.** La Banderita ( $-27.3469^{\circ}$ ,  $-65.9775^{\circ}$ , R.F. Laurent, 1968, 1 ex. each, FML00582, and FML 00587). Departamento Belén: **10.** Las Pampitas, entre Farallón Negro y Bajo La Alumbreira, Distrito Hualfin ( $-27.5332^{\circ}$ ,  $-66.1502^{\circ}$ , E. Terán, O. Pagaburo, 03/12/1982, 1 ex. FML01346). Departamento Tinogasta: Campamento El Potrerito, La Ciénaga, Medanos (not in the map, O. Pagaburo, 03/12/1987, 1 ex. FML01687). Jujuy: Departamento Cochinoca: **11.** Abra Pampa ( $-22.7205^{\circ}$ ,  $-65.6970^{\circ}$ , E. Maury, 01/12/1966, 1 ex., MACN25158). **12.** Estafeta de Abra Laite ( $-23.2001^{\circ}$ ,  $-65.7833^{\circ}$ , without date or collector information, 1 ex., CENAI2635; F. Contino, 01/07/1969, 1 ex., CENAI2636 paratypes of *Tachymenis peruviana yutoensis* Miranda and Couturier a junior synonym of *T. peruviana*). **13.** Puesto Miguel Garay, Camino a Cerro Chorrión, al E de Laguna Pozuelos, ( $-22.3821^{\circ}$ ,  $-65.8685^{\circ}$ , 3850 m a.s.l., E. Lavilla, 12/14/1979, 1 ex. FML01191). **14.** Agua de Castilla, vertiente W de Sierra Aguilar ( $-23.2062^{\circ}$ ,  $-65.7977^{\circ}$ , E. Lavilla, 11/26/1981, 1 ex. FML01313). **15.**

Rachaite ( $-22.8370^{\circ}$ ,  $-66.0742^{\circ}$ , J. Baldo, Y. Arzamendia, 04/10/2000, 1 ex. FML17643). **16.** Casabindo ( $-22.9852^{\circ}$ ,  $-66.0325^{\circ}$ , without collector information 04/28/1996, 1 ex. FML17646). **17.** Alfarcito ( $-23.3196^{\circ}$ ,  $-65.9740^{\circ}$ , J. Baldo, 04/04/2009, 1 ex. FML23553). **18.** Ruta Provincial 7; 4 km al SE de Tres Arbolitos, próximo a Laguna Pozuelos ( $-22.6226^{\circ}$ ,  $-65.8233^{\circ}$ , 3650 m a.s.l., C. Szumik, D. Ríos, 05/06/2017, 1 ex. FML29948). Departamento Humahuaca: **19.** Entre Aparzo y Palca de Aparzo ( $-23.0909^{\circ}$ ,  $-65.1876^{\circ}$ , E. Lavilla, 11/24/1979, 1 ex. FML01169). **20.** Entre Aparzo y Humahuaca ( $-23.1114^{\circ}$ ,  $-65.2336^{\circ}$ , 4300 m a.s.l., G. Scrocchi et al., 03/03/2007, 1 ex. FML18536). **21.** El Aguilar, Mina Aguilar ( $-23.2091^{\circ}$ ,  $-65.6682^{\circ}$ , 4000 m a.s.l., E. Guanuco, 12/18/1981, 1 ex. FML01315). **22.** Quebrada La Toma, El Aguilar, camino a la Repetidora ( $-23.1613^{\circ}$ ,  $-65.5904^{\circ}$ , 4000 m a.s.l., O. Pagaburo, 01/11/1988, 1 ex. FML01789). **23.** Chaupi Rodeo, ruta a Iruya ( $-22.9310^{\circ}$ ,  $-65.3111^{\circ}$ , 3450 m a.s.l., O. Pagaburo, 01/20/1988, 1 ex. FML01790). **24.** Quebrada Tonocote, subiendo por Chaupi Rodeo a Laguna Leandro, Chorcán ( $-22.9327^{\circ}$ ,  $-65.2256^{\circ}$ , 4100–4400 m a.s.l., O. Pagaburo, 01/22/1988, 2 ex. FML01791). **25.** Coctaca ( $-23.1227^{\circ}$ ,  $-65.2867^{\circ}$ , Casanova, Gallo, without date information, 1 ex. each, MACN 6157–6161). **26.** Humahuaca ( $-23.2122^{\circ}$ ,  $-65.3512^{\circ}$ , De Carles, without date information, 1 ex., MACN3004). **27.** Tres Cruces ( $-22.9203^{\circ}$ ,  $-65.5814^{\circ}$ , Cia. Minera, 04/16/1971, CENAI3018 paratype of *T. p. yutoensis*). Departamento Ledesma: **28.** Abra Colorada, Parque Nacional Calilegua ( $-23.6880^{\circ}$ ,  $-64.9077^{\circ}$ , M. Vaira, 02/1999, 1 ex. FML09075). Departamento Rinconada: **29.** Vilama, Cuesta del Farallón. Camino de cornisa entre el pueblo Lagunillas del Farallón y Vilama ( $-22.4945^{\circ}$ ,  $-66.643^{\circ}$ , 4400 m a.s.l., M. Akmentins, J. Urquiza, 03/09/2016, 1 ex. IBIGEO-R5453). **30.** Rinconada ( $-22.4415^{\circ}$ ,  $-66.1645^{\circ}$ , 3800 m a.s.l., O. Pagaburo et al., 01/25/1984, 2 ex. FML01510). **31.** Fundiciones, 40 km NE de Mina Pirquitas ( $-22.5011^{\circ}$ ,  $-66.2501^{\circ}$ , V. Abdala et al., 01/15/1989, 3 ex. FML01969). Departamento Santa Bárbara: **32.** Sierra de Santa Bárbara ( $-24.1167^{\circ}$ ,  $-64.4833^{\circ}$ , R.F. Laurent, 01/1966, 2 ex. FML01018). **33.** Cerro Centinela ( $-24.2784^{\circ}$ ,  $-64.3780^{\circ}$ , A. Vilte, 12/18/2011, 1 ex. FML25078). Departamento Santa Catalina: **34.** Ladera NW Cerro Santa Catalina ( $-21.9666^{\circ}$ ,  $-66.0500^{\circ}$ , 3600 m a.s.l., O. Pagaburo et al. 01/15/1984, 1 ex. FML01509); **35.** 12 km de Santa Catalina, camino a El Angosto ( $-22.0429^{\circ}$ ,  $-66.0862^{\circ}$ , 3900 m a.s.l., O. Pagaburo et al., 01/15/1984, 1 ex. FML 01511). **36.** Cieneguillas ( $-22.1010^{\circ}$ ,  $-65.8613^{\circ}$ , J. Baldo, 02/02/2004, 1 ex. FML17648). Departamento Susques: **37.** Susques ( $-23.4109^{\circ}$ ,  $-66.5022^{\circ}$ , E. Lavilla, 03/22/1980, 1 ex. FML01190). Departamento Tilcara: **38.** Paraje Casa Colorada, entre Tilcara y San Francisco ( $-23.5778^{\circ}$ ,  $-65.3329^{\circ}$ , F.G. Burgos, 04/24/2012, 1 ex. FML25071). Departamento Tumbaya: **39.** Arroyo y Vega El Morado, Sierra Alta ( $-23.5387^{\circ}$ ,  $-65.6151^{\circ}$ , J. Baldo, 02/08/2001, 1 ex. FML17644). Departamento Valle Grande: **40.** Cerro Calilegua ( $-23.5812^{\circ}$ ,  $-64.7998^{\circ}$ ,

- J.M. Gómez, without date information, 2 ex. FML00620).
- 41.** Abra del Valle, Santa Ana (−23.3540°, −64.9767°, J. Baldo, Y. Arzamendia, 04/28/2001, 1 ex. FML17645). Departamento Yavi: **42.** 20 km W de La Quiaca, por ruta Provincial 5 (−22.1461°, −65.4212°, Z. Tomsic, 11/27/1974, 1 ex. FML00793). **43.** Toqueros (−22.1177°, −65.7811°, D. Bald. Entre San Bernardo de las Zorras y El Rosal, Ruta Provincial 127, 21.3 km NE de Ruta Nacional 51 (−24.4025 −65.7768, 3300 m a.s.l., T. Hibbard et al., 04/07/2017, 1 ej. IBIGEO-R5717-5718). o, 06/05/2002, 1 ex. FML17647). **44.** Yavi (−22.1334°, −65.4611°, D. Baldo et al., 02/14/2005, 1 ex. FML17649). Salta: Departamento Cachi: **45.** Quebrada Las Pailas, Cachi Adentro (−25.0148°, −66.2573°, 3300-3500 m a.s.l., E. Pereyra, O. Pagaburo, 01/28/1985, 2 ex. FML01552). Departamento La Poma: **46.** Cobres, 67 km N de San Antonio de Los Cobres (−23.6891°, −66.2372°, G. Scrocchi, 05/04/1977, 1 ex. FML00972). Departamento Los Andes: **47.** 25 km N de San Antonio de los Cobres por ruta nacional 40 (−24.0143 −66.2378, 3500 m a.s.l., L. Díaz Fernández et al., 12/20/2015, 1 ex. IBIGEO-R 5462). Departamento Metán: **48.** Sierra de Metán, orillas del Río Vallecito (−25.4845°, −65.0334°, E. Terán, O. Pagaburo, 10/16/1977, 1 ex. FML00984). Departamento Rosario de Lerma: **49.** Entre San Bernardo de las Zorras y El Rosal, Ruta Provincial 127, 21.3 km NE de Ruta Nacional 51 (−24.4025 −65.7768, 3300 m a.s.l., T. Hibbard et al., 04/07/2017, 1 ej. IBIGEO-R5717-5718). Departamento Santa Victoria: **50.** Cercanías de Cañani (−22.3166°, −64.8833°, A. Brunetti, F. Burgos, 02/02/2008, 1 ex. MACN51585). Tucumán: Departamento Chichigasta: **51.** Entre Laguna del Tesoro y Cochuna (−27.2900°, −65.9541°, 1800 m a.s.l., S. Halloy, 07/13/1974, 1 ex. FML00767). Departamento Tañi del Valle: **52.** Cerro Muñoz (−26.7217°, −65.8080°, C.C. Olrog, 01/21/1954, 1 ex. FML00327). **53.** El Molle, Sierra del Aconquija (−26.7008°, −65.8012°, 2900 m a.s.l., R. Cei, 05/27/1967, 1 ex. FML00556). **54.** El Infiernillo, camino a El Negrito (−26.7366°, −65.7851°, 3500 m a.s.l., C. Halloy, 12/1970, 1 ex. FML00607, A. Marcus et al., 01/31/1980, 1 ex. FML01171). **55.** Puesto El Sunchal, km 41 de ruta a Tañi del Valle (−26.9956°, −65.6629°, J. M. Gómez, 10/28/1971, 1 ex. FML00644). **56.** Km 68.5 de la ruta provincial 307 (−26.8126°, −65.7194°, R.F. Laurent, 04/12/1974, 1 ex. FML00750). **57.** Ciénaga Grande, Cumbres Calchaquies (−26.6834°, −65.6504°, S. Halloy, 12/29/1979, 1 ex. FML00960). **58.** Ciénaga de los Caminos, Cerro Muñoz (−26.7689°, −65.8494°, 3850 m a.s.l., A. Marcus et al., 01/31/1980, 1 ex. FML01171). **59.** El Mollar and surroundings (−26.9485°, −65.7154°, F.E. Fernández, 01/01/1980, 1 ex. FML01259, R. Porcel, 02/14/1982, 1 ex. FML01329, O. Pagaburo, 12/10/1983, 1 ex. FML01505, M. Fernández, 01/25/1981, 1 ex. FML01512, A. Nieto. 01/10/1988, 1 ex. FML01850, O. Pagaburo, 04/24/1989, 1 ex. FML01976, G. Scrocchi, J.C. Moreta, 03/21/1992, 1 ex. FML02264, E.J. Uro, 02/11/1993, 1 ex. FML02358, P. Blazquez, 02/11/2005, 1 ex. FML16178, A. Porcel, 01/15/2015, 1 ex. FML28251). **60.** Tañi del Valle and surroundings (−26.8548°, −65.7116°, C. Canzonieri, 01/01/1987, 2 ex. FML 01669, without collector information, 01/08/1983, 1 ex. FML01740, M. Corbalán, 03/01/1991, 1 ex. FML02124, F. Pape, 04/20/1993, 1 ex. FML02390, E. González, 03/11/1995, 1 ex. FML02606, J.C. Moreta, 12/04/1995, 1 ex. FML02681, without collector information, 03/06-07/1999, 1 ex. FML08274, M. Corbalán, F. Corbalán, 02/27/2000, 1 ex. FML09153, without collector information, 02/06/2001, 1 ex. FML09869, P. Caplonch, 02/15/2005, 1 ex. FML16138, G. Gallardo, 10/13/2005, 1 ex. FML16563, G. Gallardo, 12/07/2005, 1 ex. FML16642, P. Viejobueno, 03/31/2010, 1 ex. FML23633, P. Viejobueno, 04/19/2014, 1 ex. FML27182, S. Ferjancic, 04/20/2014, 1 ex. FML27185, R. Araoz, 11/01/2015, 1 ex. FML28966, J.P. Sosa, 04/01/2016, 1 ex. FML29226, without collector information, 04/20/2016, 1 ex. each, FML29318, and FML 29449, without collector, 05/20/2016, 1 ex. FML29319; J.M. Gallardo, 11/1960, 1 ex., MACN13773). **61.** Km 98 ruta provincial 307 (−26.6410°, −65.8207°, L. Aùn, R. Martori, 03/05/1993, 1 ex. FML02737). **62.** Km 86 ruta provincial 307 (−26.7161°, −65.7936°, G. Scrocchi, M. Harvey, 01/25/2000, 1 ex. FML08973). **63.** 21.7 km al E de Amaicha del Valle, por ruta provincial 307 (−26.6809°, −65.8127°, 2800 m a.s.l., L. Avila et al., 12/12/2001, 1 ex. FML13566). **64.** El Pinar, Tañi del Valle (−26.8145°, −65.7197°, without collector information, 03/31/2005, 1 ex. FML16380). **65.** Cerca de Puesto Carpanchay, Cerro El Pichao, Sierra de Quilmes (−26.3812°, −66.0810°, 3800 m a.s.l., C. Abdala, S. Quinteros, 11/21/2006, 1 ex. FML18064). Departamento Tañi Viejo: **66.** Mala Mala (−26.7666°, −65.5333°, M.G. Puchulu, 08/20/2011, 1 ex. FML24346). Departamento Trancas: **67.** Quebrada de las Campanas (−26.3171°, −65.6192°, 2100 m a.s.l., O. Pagaburp, E. Terán, 09/25/1980, 1 ex. FML01225). **68.** 20 km de Hualinchay (−26.3662°, −65.6612°, 3100 m a.s.l., G. Scrocchi, S. Quinteros, 12/06/2004, 1 ex. FML16131). **69.** 12.2 km desde curva para subir desde Hualinchay (−26.3280°, −65.6209°, 2500 m a.s.l., F. Lobo et al., 12/15/2001, 1 ex. MCN-UNSa733).
- BOLIVIA. La Paz, (without collector information, 1919, 1 ex. FML00464). CHILE. Pro. Entre San Bernardo de las Zorras y El Rosal, Ruta Provincial 127, 21.3 km NE de Ruta Nacional 51 (−24.4025°, −65.7768°, 3300 m a.s.l., T. Hibbard et al., 04/07/2017, 1 ej. IBIGEO-R5717-5718). Provincia de Atacama: Afueras del Parque Nacional Llanos de Challe (−28.1523°, −71.0297, without collector or date information, 1 ex. MACN40056). PERÚ. Huamahuaco, (W. Weyrauch, without date information, 1 ex. FML01132). Departamento Puno: Sil-lustani, (E. Lavilla, 10/06/1983, 1 ex. FML 01491).

## Discussion

The locality El Parrón, where the specimen FML30163 was found, is approximately 190 km SW from the nearest previously known locality (Cerro El Manchao,

Catamarca, marked in the map in Scrocchi et al. 2006). Also, El Parrón and Cueva de Logroño in Famatina area are the southernmost records of the distribution of *Tachymenis peruviana*. The highlands in NW Argentina, especially the regions of highest altitude, which include most of the distributional area of *Tachymenis peruviana* in the country, have problems regarding protection and conservation, such as soil erosion, mining, sports with off-road vehicles, infrastructure works such as gas pipelines and high-voltage lines (González 2005). Therefore, although it is considered a non-threatened species in the country (Giraud et al. 2012b), it is important to analyze periodically the situation of its populations.

We also revised other type material of *Tachymenis peruviana yutoensis*, considered junior synonym of *Tachymenis peruviana* (Terán 1988, Wallach et al. 2014), in addition to those mentioned in “Other material...” section. The holotype (CENAI2632) is labeled “Yuto, Departamento Ledesma, Jujuy” (−23.6469°, −64.4732°), a locality of low plains (350–400 m a.s.l.), with forests and warm climate, which according to the known ecological requirements for *T. peruviana*, would be unsuitable for the species. The paratypes (CENAI2633–2634) come from “Santa Bárbara”, which is a mountain chain in Jujuy, where *T. peruviana* does occur (Fig. 3), but without more specific locality data in the collection record, which does not allow to locate the exact collection site in the map.

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## Authors' Contributions

GAG, SJN and GJS collected the data, wrote, and reviewed the text.

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