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CONTRIBUTION TO THE LICHEN FLORA OF URUGUAY XLV SOME INTERESTING ADDITIONS

HECTOR S. OSORIO *

ABSTRACT: Fifteen Uruguayan lichens are listed including 11 new departmental records.

RESUMEN: Quince líquenes uruguayos se enumeran incluyendo 11 nuevos registros departamentales.

KEY WORDS: Uruguay- Lichens- Taxonomy- Distribution.

PALABRAS CLAVE: Uruguay- Líquenes- Taxonomía- Distribución.

Introducción

During the conference delivered in the GLAL IX : Corrientes, Argentina (Osorio 2009:1) we have emphasized that of the 540 lichens species known from Uruguay 41 % are recorded by only one collection.

In the following list of 15 species we have included (+): new Departmental record, (++): complementary records to some Departments and (!): collections that are the southernmost record in South America.

The specimens listed are housed in the Herbarium of the Departamento de Botánica, Museo Nacional de Historia Natural, Montevideo, Uruguay,(MVM) and in the private herbarium of the

* Casilla de Correo 168. CP.: 11.000, Montevideo, Uruguay.
E-mail: hsosorio@adinet.com.uy

author (HO).

The results of this study are summarized in a chapter at the end of the species list.

The following abbreviations are used for the Departments sampled: CA: Canelones, CO: Colonia, DU: Durazno, FA: Florida, FS: Flores, LA: Lavalleja, MA: Maldonado, MO: Montevideo, SJ: San Jose, TA: Tacuarembó, TT: Treinta y Tres, RO: Rocha.

List of species

Candelaria concolor (Dicks.) Stein.

- (+) CA: Parque Nacional "F. D. Roosevelt", Coastal Ave. (34° 52'S/56°00'W), VI. 1985, on branches of *Acacia longifolia*, vidi: Ulf Arup (2011), (HO 8517).
- (++) CO: Paso Antolin (34° 11'S/57° 47'W), on *Schinus dependens*, (HO 6303), on rocks, (HO 6294).
- (+) DU: La Paloma (32° 43'S/55° 35'W), II.1953, on trunks, (HO 2877).
- (+) MA: Cerro Pan de Azucar (34° 50'S/55° 16'W), I.1963, on rocks, (HO 5022).
- (+) TT: Quebrada de los Cuervos (32°54'S/54° 25'W), III.1970, on bark of *Eucalyptus* (HO 6028).

Cladonia didyma (Fee) Vainio

- (!) CA: Parque Nacional "F. D. Roosevelt":
 - (a) Camino Carrasco (34° 51'S/56°02'W), VII.1972, on trunk of *Pinus*, (HO 6837).
 - (b) Avenida Italia (34°51'S/56°00' W), VII.1985, on trunk of *Pinus*, (HO 8528).
 These collections are the southernmost records in South America.

Cryptothecia rubrocincta (Ehrenb.) Thor.

- (+) LA: Cerro Arequita (34°17'S/55°16'W), X.2011, on shaded rocks, leg. M.Valdivia & E. Juri s.n. (MVM 22243).

Diploschistes conceptionis Vainio

- (++) RO: Cerro de los Rochas (34°09'S/53°51'W), IV.2003, on soil, among rocks, (HO 9661) & G. Geymonat.

Heterodermia lutescens (Kurok.) Follmann

- (j) MA: Sierra de las Animas, Pozo de las Orquideas (34°44'S/55°19'W), I.1978, on moss covered rocks, (HO 7613). This collection is the southernmost record in South America.

Parmotrema argentinum (Kremp.) Hale

- (!) CA: Parque Nacional "F. D. Roosevelt", Avenida Italia (34°51'S/56°00'W), VI.1983, on trunk of *Quercus*, (HO 8281). This collection is the southernmost record in South America.

Parmotrema chinense (Osbeck) Hale & Ahti

- (+) SJ: Sierra Mahoma (34°04'S/56°53'W), VIII.1969, on south faced stones, (HO 6220).

Punctelia canaliculata (Lynge) Krog

- (+) CA: Rio Santa Lucia, Isla del Frances (34°58'S/56°46'W), II.1950, on trees along the riverside, (HO 2151).
 (+) DU: a) Rio Negro, Paso de las Piedras, (32°25'S/55°25'W), on shrubs, II.1974, (HO 6948 a & b), on trees along the riverside (HO 6932), on *Erythrina crista galli*, (HO 6964).
 b) Rio Negro (1 km E of the railway station km 329), II.1974, on shrubs along the riverside (HO 7008 & 7013).
 (++) TA: Rincon de la Laguna (near Pueblo Ansina: 31°34'S/55°28'W), II.1947, on trunks, (HO 1152).

Punctelia semansiana (W.Culb. & Ch.Culb.) Krog

- (+) MO: Melilla (34°48'S/56°21'W), XII. 1982, on *Scutia buxifolia* (HO 8130), on *Acacia caven* (HO 8139).

Ramalina celastri (Spreng.) Krog & Swinscow

- (++) CA: a) Bañado del Negro (34°47'S/55°56'W), I.1980, on *Salix*, vidi G. N. Stevens, 1984 (HO 5141), on *Sebastiania* (HO 5149), on *Cassuarina* (HO 5150), on shrubs (HO 5151), XI.1981, on wooden fence posts (HO 5195).
 b) Parque Nacional "F. D. Roosevelt", Camino Carrasco, (34°51'S/56°02'W) IX.1997, on *Eucalyptus* (HO 9344).
 c) Rio Santa Lucia, Isla del Frances (34°58'S/56°46'W), II. 1950, on *Erythrina crista-galli*, det. A. H. Magnusson 1956, vidi G. N. Stevens 1984 (HO 2163).

- (++) FA: a) City 25 de Agosto (34°24'S/56°25'S), VII.1945, on branches of various trees, locally common, det. A.H. Magnusson 1956 (HO 569).
 b) Route 41 and brook Sauce de Mansavillagra (33°56'S/55°33'W), II.1974 on wooden fence post, det H. Kashiwadani 1990 (HO 7041, 7042).
- (++) FS: a) Route 3: km 241 (33°10'S/57°03'W), II.1946, on *Melia*, det.A.H.Magnusson 1957 (HO 3586).
 b) Barra del Sauce (45 km S from Trinidad City:33°32'S/56°54'W), III.1949, on bark, det. A.H.Magnusson 1956 (HO 2099).

***Sticta fuliginosa* (Dicks.) Ach.**

- (+) LA: Villa Serrana (34°17'S/54°59'W), X.2010, on bushes, leg. M.Valdivia s.n. (MVM 17.016).

***Strigula nemathora* Mont.**

- (j) RO: Cerros de Navarro, Quebrada de los Higueros, (34°05'S/53°45'W), IV. 2003. On leaves of *Daphnopsis racemosa*, locally common, (HO 9674 & G. Geymonat).
 This collection is the southernmost record in South America for this taxa.

***Usnea ceratina* Ach.**

- (+) CA: Bañado del Negro (34°47'S/55°56'W), XI.1981, on wooden fence post, (HO 5196).

***Usnea fastuosa* (Mull.Arg.) Zahlbr.**

This taxon recently quoted for Uruguay (J. M. Rodrigues et al. 2011: 516) was formerly reported mistaken in several papers as *Usnea amaliae* Motyka (Herter 1933:49, Magnusson 1950:235, Motyka 1938:634, Osorio 1967:9, Räsänen 1938:65).

It is remarkable that the area of distribution in Uruguay: is limited to 3 hills in the SW of the Department of Maldonado: Sierra de las Animas : 34°46'S/55°19'W, Cerro Pan de Azucar: 34°48'S/55°15'W, and Cerro Tupambae: 34°68'S/ 55°31'W.

All the samples below listed were gathered on exposed rocks between 400-500 m.s.m.

Samples studied: -) Sierra de las Animas: 1948 (HO1558), 1967 (HO 4742), 1976 (HO 7340 & 7341). -) Cerro Pan de Azucar: 1946 (HO 853). -) Cerro Tupambae: 1982 (HO 9692).

Usnea krempelhuberi Motyka.

(++) LA: Cerro Arequita, (34°17'S/55°15'W), VIII.1957, on rocks,
S slope det. J. Motyka 1961, (HO 3939).

Results

The results of the study of the taxa enumerated above can be summarized as follows:

- a) *Cladonia didyma*, *Heterodermia lutescens*, *Parmotrema argentinum* and *Strigula nemathora* are the southernmost records of these species in South America.
- b) Eleven collections are new Departamental records.
- c) Seven Departments with complemental records.
- d) *Usnea fastuosa* with a remarkable distribution.

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MUSEO NACIONAL DE HISTORIA NATURAL
CASILLA DE CORREO 399
11.000 MONTEVIDEO, URUGUAY
FAX: (005982) 917-0213
E-MAIL: INFO@MNHN.GUB.UY
[HTTP://WWW.MNHN.GUB.UY](http://WWW.MNHN.GUB.UY)

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J. C. Gómez 1461 - Telefax: 2915 7231
cba@internet.com.uy
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