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**CONTRIBUTION TO THE LICHEN FLORA OF URUGUAY
XLI LICHENS FROM NE URUGUAY ***

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ABSTRACT: Of 38 lichens and lichenicolous fungi collected from NE Uruguay, two, *Heterodermia boryi* and *Leptogium isidiosellum*, are new to Uruguay and 24 are new to the Departments of Artigas, Rivera and Tacuarembó.

RESUMEN: Se enumeran 38 líquenes y hongos líquenicolas colectados en el NE de Uruguay. *Heterodermia boryi* y *Leptogium isidiosellum* se incorporan a la flora de Uruguay. Se citan veinticuatro nuevos registros Departamentales.

Key words: Lichens-lichenicolous fungi-Uruguay- *Heterodermia boryi* - *Leptogium isidiosellum*

Palabras claves: Líquenes-hongos líquenicolas-Uruguay- *Heterodermia boryi* - *Leptogium isidiosellum*

Introduction

In 2002 the junior author (GG) collected lichens from the region of “Rincón de Vassoura” on the border between the Departments of Rivera and Tacuarembó in NE Uruguay. This contribution also includes the collections of members of the staff of Museo Nacional de Historia Natural y Antropología, Montevideo, Uruguay. This region is well known for its large number of wooded ravines which provide the southernmost refuges of many

* The authors dedicate this article to the Argentinian mycologist Prof. Dr. Jorge E. Wright (1922-2005) for his generous cooperation and friendship that they have enjoyed during the last 30 years.

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tropical species (ALONSO & BASSAGODA 2002) and lodges the richest native woodlands in Uruguay (BRUSSA et al. 1993, LANGGUTH 2004).

This paper is the first contribution to a projected lichen flora of an area circumscribed within the following limits: to the north by the Uruguay-Brazil boundary, to the south by latitude 32°30'S and to the east and west by longitudes 55°00'W and 56°30'W respectively.

The present knowledge of the lichen flora of the three Departments studied, namely Artigas, Rivera and Tacuarembó, is limited as gauged from the recent checklist of the Uruguayan lichen flora (OSORIO 2005): of 505 taxa enumerated, the numbers recorded and respective percentages of the total flora are: Artigas: 80 (15%), Rivera: 57 (16%) and Tacuarembó: 68 (13%). The locations studied and their geographic coordinates are as follows;

ARTIGAS Department (A)

Arroyo Catalan Chico: 30°43'S/56°19'W.

Arroyo Catalan Grande: 30°31'S/56°20'W.

RIVERA Department (R)

Gajo del Lunarejo: 31°31'S/55°47'W.

Mina de San Gregorio, 3 km SW of Minas de Corrales town:
31°35'S/55°28'W.

Rivera City: 30°54'S/55°31'W.

Subida de la Diligencia, 10 km SW of Rivera City: 30°54'S/55°31'W.

TACUAREMBO Department (T)

Arroyo Malo, 20 km SE of Curtina Town: 32°09'S/56°07'W.

Arroyo Tres Cruces, Crossroad with Route 26: km 254: 31°43'S/55°46'W.

Estancia La Tijereta, 40 km E of Curtina Town: 32°09'S/56°07'W.

Gruta de los Cuervos, 25 km NNW of Tacuarembó City:
31°44'S/55°59'W.

Rincón de Vassoura: 31°22'S/55°47'W.

Valle Eden: 31°50'S/56°09'W.

The lichens enumerated below are housed in the Herbarium of the Museo Nacional de Historia Natural y Antropología, Montevideo, Uruguay (MVM) and in the private collection of the senior author (HO). An asterisk (*) indicates a new Departmental record.

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List of species

Canomaculina subsumpta (NYL.) ELIX

T: Rincón de Vassoura, 1987, on trunk of trees, PRADERI (MVM 17.053).

Cladonia ochracea L. SCRIBA in SANDSTEDE

***/T:** Rincón de Vassoura, 2002, on soil, GEYMONAT (HO.9548, 9551) det T. AHTI 2002.

Cladonia subradiata (VAINIO) SANDSTEDE

***/T:** Rincón de Vassoura, 2002, on soil, GEYMONAT (HO.9550, 9552), det T. AHTI 2002.

Cladonia subsquamosa KREMP.

***/T:** Rincón de Vassoura, 2002, on soil, GEYMONAT (HO.9549).

Coccocarpia erythroxyli (SPRENG.) SWINSCOW & KROG

***/T:** Rincón de Vassoura, 2002, on bark of tree, GEYMONAT (HO.9534).

Concamerella pachyderma (HUE) W. CULB. & CH.CULB.

***/T:** Gruta de los Cuervos, 1987, on rocks, PRADERI (HO.9719 *pr.p.*).
The first record of this genus in Uruguay north of the Rio Negro.

Heterodermia boryi (FEE) KR. P.SINGH & S. R. SINGH

T: Rincón de Vassoura, 2002, on bark of tree, GEYMONAT (HO.9532, 9544)
New to Uruguay.

Heterodermia diademata (TAYL.) AWASTHI

R: Subida de la Diligencia, 1989, on rocks, PRIGIONI (MVM.16.648).

Heterodermia lutescens (KUROK.) FOLLM.

***/T:** Valle Edèn, 1979, on rocks, PIAGGIO (MVM 17.110).

Heterodermia vulgaris (VAINIO) FOLLM. & REDON

***/T:** Rincón de Vassoura, 2002, on bark, GEYMONAT (HO.9539).

Hyperphyscia syncolla (TUCK.) KALB

T: Arroyo Tres Cruces, 1997, on shrubs, ALONSO PAZ (MVM 2448).

Leptogium austroamericanum (MALME) DODGE

T: Rincón de Vassoura, 2002, on bark of tree, GEYMONAT (HO.9537).

Leptogium azureum (SW.) MONT.

***/T:** Rincón de Vassoura, 2002, on bark of tree, GEYMONAT (HO.9529.a.).

Leptogium isidiosellum (RIDD.) SIERK

T: Rincón de Vassoura, 2002, on bark of tree, GEYMONAT (HO.9529.b).
New to Uruguay.

Leptogium phyllocarpum (PERS.) NYL.

T: Rincón de Vassoura, 2002, on bark of tree, GEYMONAT (HO.9545).

Lobaria discolor (BORY IN DELISE) HUE

***T:** Rincón de Vassoura, 2002, on trunk of tree, GEYMONAT (HO.9533).

Rincón de Vassoura is currently the only location for this species in Uruguay (OSORIO 1966: 2, 1995: 444, 1999: 3) and also its southernmost record in South America.

Lobaria erosa (ESCHW.) TREVISAN

T: Rincón de Vassoura, 2002, on bark of tree, GEYMONAT (HO.9542).

Peltigera austroamericana ZAHLBR.

***T:** Rincón de Vassoura, 2002, on mossy rocks, GEYMONAT (HO.9528).

Pertusaria velata (TURNER) NYL.

T: Arroyo Tres Cruces, 1997, on shrubs, ALONSO PAZ (MVM 2441).

Phoma fistulata ETAYO & OSORIO

***T:** Gruta de los Cuervos, 1987, on *Concamerella pachyderma* growing on rocks, PRADERI (HO.9719 *pr.p.*).

The first record of this genus in Uruguay north of the Rio Negro.

Phyllopsora confusa SWINSCOW & KROG

***T:** Rincón de Vassoura, 2002, on trunk of tree, GEYMONAT (HO.9546).

Physcia alba (FEE) LYNGE.

***A:** Arroyo Catalan Chico, Paso Mendiondo, 1971, on bark, PHILIPPI-GORTARI (MVM 17.264).

***T:** Rincón de Vassoura, 2002, on trunk of tree, GEYMONAT (HO.9538, 9541).

Pseudocyphellaria aurata (ACH.) VAINIO

R: Gajo del Lunarejo, 2004, on trunk of tree, ALONSO PAZ (HO.9708); Mina San Gregorio, 1989, on bark, PRIGIONI & GONZALEZ (MVM.16.672).

T: Gruta de los Cuervos, 1992, on branches, PRADERI (MVM.16.829); Rincón de Vassoura, 2002, on bark of tree, GEYMONAT (HO.9435); Valle Eden, 1979, on bark, PIAGGIO (MVM.17.111).

Punctelia borrerina (NYL.) KROG

***T:** Estancia La Tijereta, 1989, on bark, PRIGIONI (MVM 16.643).

Punctelia canaliculata (LYNGE) KROG

***T:** Arroyo Tres Cruces, 1997, on shrubs, ALONSO PAZ (MVM 2444).

Punctelia microsticta (MÜLL.ARG.) KROG

A: Arroyo Catalan Chico, Paso Mendiondo, 1971, on branches, PHILIPPI-GORTARI (MVM 17.266).

T: Arroyo Catalan Grande, Paso Riani, 1971, on branches of trees, PHILIPPI-GORTARI (MVM 17269).

Pyxine petricola NYL. in CROMBIE var. *convexula* (MALME) KALB

***A:** Arroyo Catalan Chico, Paso Mendiondo, 1971, on bark, PHILIPPI-GORTARI (MVM 17.265).

Ramalina aspera RÄSÄNEN

***R:** Mina San Gregorio, 1989, on branches, PRIGIONI & GONZALEZ (MVM 16.678).

***T:** Estancia La Tijereta, 1989, on bark, PRIGIONI (MVM 16.644).

Ramalina celastri (SPRENG.) KROG & SWINSC.

R: Mina de San Gregorio, 1989, on branches, PRIGIONI & GONZALEZ (MVM 16.675, 16.821).

T: Arroyo Tres Cruces, 1997, on branches of shrubs, ALONSO PAZ (MVM 2438); Estancia La Tijereta, 1989, on bark, PRIGIONI (MVM 16.642); Gruta de los Cuervos, 1992, on branches, PRADERI (16.825).

Ramalina prolifera TAYLOR

A: Arroyo Catalan Grande, Paso Riani, 1971, on branches of trees, PHILIPPI & GORTARI (MVM 17.270); Arroyo Catalan Grande, Paso de la Urumbeba, 1984, on branches, PRIGIONI (MVM 18.707).

T: Arroyo Tres Cruces, 1997, on branches of shrubs, ALONSO PAZ (MVM 2439, 2440).

Rimelia cetrata (ACH.) HALE & FLETCHER

***T:** Gruta de los Cuervos, 1992, on branches, PRADERI (MVM 16.826); Rincón de Vassoura, 2002, on bark of tree, GEYMONAT (HO.9547).

Sticta fuliginosa (HOFFMANN) ACH.

T: Rincón de Vassoura, 2002, on rocks, GEYMONAT (HO.9536).

Teloschistes cymbalifer (MEY. & FLOT.) MÜLL.ARG.

A: Arroyo Catalan Chico, Paso Mendiondo, 1971, on bark, PHILIPPI & GORTARI (MVM 17.263.)

Teloschistes exilis (MICHX.) VAINIO

A: Arroyo Catalan Grande, Paso de la Urumbeba, 1984, on branches, PRIGIONI (MVM 18.706)

R: Mina San Gregorio, 1989, on branches of shrubs, PRIGIONI & GONZALEZ (MVM 17.018); Rivera City, Parque Gran Bretaña, 1989, on branches, ALONSO PAZ (17.059).

T: Arroyo Tres Cruces, 1997, branches of shrubs, ALONSO PAZ (MVM 2445)

Usnea angulata ACH.

***R:** Mina de San Gregorio, 1989, on branches of shrubs, PRIGIONI & GONZALEZ (MVM 17.017).

T: Arroyo Tres Cruces, 1997, on branches of shrubs, ALONSO PAZ (MVM 2446); Valle Eden, 1979, on branches, PIAGGIO (MVM 17.112).

Usnea dasaea STIRTON

***R**: Mina San Gregorio, 1989, on branches, PRIGIONI & GONZALEZ (MVM 16.820).

Usnea dichroa MOTYKA var. *spinulosa* MOTYKA.

***R**: Mina San Gregorio, 1989, on branches, PRIGIONI & GONZALEZ (MVM 16.819).

Usnea subelegans (VAINIO) MOTYKA

***T**: Arroyo Malo, Paraje Once Cerros, Campos Hnos. Valdez, 1973, on trees, MONES (MVM 17.625).

With this contribution, the authors initiate the study of the lichen flora of NE Uruguay.

Two species, *Heterodermia boryi* and *Leptogium isidiosellum*, new to Uruguay; *Lobaria discolor* and *Leptogium isidiosellum* here reported are the southernmost records in South America, the genera *Concamerella* and *Phoma* are recorded in North Uruguay for the first time, and 24 new Departmental records are distributed as follows: 2 in Artigas, 4 in Rivera and 18 in Tacuarembó.

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