

**COMUNICACIONES BOTANICAS**

MUSEO NACIONAL DE HISTORIA NATURAL Y ANTROPOLOGIA

Número 133

2007

Volumen VI

**CONTRIBUTION TO THE LICHEN FLORA OF URUGUAY  
XLII. ADDITIONS AND CORRECTIONS \***

HÉCTOR S. OSORIO \*\*

**ABSTRACT:** Twenty-one lichens, including 33 new Departmental records and two genera *Enterographa* and *Hemithecium* and one species *Graphis tenuescens* new to the country, are listed for Uruguay.

**RESUMEN:** Se enumeran 21 líquenes uruguayos y se incluyen 33 nuevos registros Departamentales. Los géneros *Enterographa* y *Hemithecium* y la especie *Graphis tenuescens* se citan por primera vez para el Uruguay.

**Introduction**

This paper presents the results of some recent studies as a contribution to a future checklist of the Uruguayan lichen flora. In the last meeting of the Grupo Latinoamericano de Lichenólogos, GLAL 7, Curitiba, Brazil (21-25.XI.2005) a list of the 505 lichens found in Uruguay was presented (OSORIO 2005:78-79) It should be stressed that 42% of the taxa quoted are represented only by one gathering. In

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\* The author dedicates this article to the British lichenologist Dr IVAN MACKENZIE LAMB (ELKE MACKENZIE) (1911-1990). On his return from "Operation Tabarin" in 1946 (LEWIS-SMITH 2000:492), he worked for three months in the Department of Botany of the Museo Nacional de Historia Natural, Montevideo, Uruguay and guided the first steps of the author in the field of the lichenology.

\*\* Instituto Felix de Azara, Casilla de Correo 168, 11.000 Montevideo, Uruguay.  
E-mail: [hsosorio@adinet.com.uy](mailto:hsosorio@adinet.com.uy)

the list of species below, a significant number of new Departmental records are included together with some nomenclatural corrections. All the collections of *Ramalina sprengelii* and *R. usnea* known in Uruguay are reviewed according to the concepts from KASHIWADANI & KALB (1993) and KROG & SWINSCOW (1976). 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 author (HO). An asterisk (\*) indicates a new Departmental record.

**Acknowledgements:** Respectful thanks are given to Lic. Arturo Toscano, Director of the Museo Nacional de Historia Natural y Antropología, Montevideo, Uruguay, for providing working facilities and to the following specialists for their valuable cooperation: K. Klaus, H. Kashiwadani and K. Verseghy. The author's gratitude is extended to Dr. M. R. D Seaward for the most valuable comments on the manuscript.

### List of species

*Anthracothecium goniostomum* MÜLL ARG.

**CA:** \*/ Bañado de Carrasco, Canal Toledo and Canal Canteras: 34°50'S/55°58'W, 1985, on *Acer Negundo*, OSORIO 8574.

**DU:** \*/ El Cordobés, Estancia Las Pitangas: 32°30'S/55°19'W, 1953, on shrubs, OSORIO 2893.

\*/ Arroyo El Cordobés, Paso de la Cruz: 32°30'S/55°19'W, 1953, on shrubs, OSORIO 2743.A

\*/ Arroyo del Estado: 32°39'S/55°24'W, 1953, on shrubs, OSORIO 3013.

\*/ Río Negro (1 km E of the km 329 railway station: 32°26'S/55°24'W), 1974, on riverside shrubs, OSORIO 7012.

**FS:** \*/ Hwy 3: km 241, Arroyo Marincho: 33°11'S/57°04'W, 1956, on *Celtis tala*, OSORIO 3476.

**MA:** \*/ Sierra de las Ánimas, Source of Arroyo Pedregoso: 34°46'S/55°20'W, 1979, on shrubs, OSORIO 7657.

\*/ Sierra de las Ánimas, Source of Cañada Totorá: 34°46'S/55°21'W, 1981, on *Sebastiania*, OSORIO 5199.

\*/ Pan de Azúcar City, Parque Municipal: 34°48'S/55°14'W, 1968, on shrubs, HO 5059, on *Blepharocalyx*, OSORIO 5070.

*Candelaria concolor* (DICKS.) STEIN.

**AR:**\*/ Río Uruguay, Isla Zapallo: 30°31'S/57°53'W, 1979, on trunk, CASTIGLIONI s.n. (MVM 17.907).

**SO:**\*/ Río Negro, Isla Barrientos: 33°19'S/58°10'W, 1970, on branches, OLAZARRI s.n. (MVM 17.231).

*Canomaculina pilosa* (STIZENB.) ELIX & HALE

**SO:\*/** Rio Negro, Isla Asencio de Abajo: 33°20'S/58°11'W, 1970, on bark, OLAZARRI s.n. (MVM 17.228).

*Cryptothecia rubrocincta* (EHRENB.) THOR

**RI: \*/** Cerro Alegre (15 km W of Tranqueras Town: 31°12'S/55°45'W) 1984, on rocks, BRESCIA & MARCHESI s.n. (MVM 17.121)

**SJ: \*/** Sierra Mahoma: 34°05'S/56°56'W, 1983, on tree bark, PRIGIONI & LANGONE s.n. (MVM 17.116).

*Enterographa anguinella* (NYL.) REDINGER.

**AR:** Estancia El Tigre (10 km W of Colonia Palma Town: 30°40'S/57°40'W), 1975, on Myrtaceae, marginal forest of the Arroyo El Tigre, OSORIO 7232. Formerly published as *Chiodecton quasiaeolum* (PERS.) MÜLLARG. var. *plurisepta* RÄS. (OSORIO 1980:138).

**CA:** Parque Nacional F. D. Roosevelt: 34°51'S/56°00', 1995, on tree bark, OSORIO 9311, det. K. KALB 2006. First record of this genus in Uruguay

*Graphina dealbata* NYL.

**FS: \*/** Hwy 3: km 241: 33°11'S/57°04'W, 1956, on *Celtis tala*, OSORIO 3569.

*Graphis tenuescens* NYL.

**TT:** Quebrada de los Cuervos: 32°54'S/54°25'W, 1970, on bark of *Eucalyptus*, OSORIO 6032, det. K. KALB 2006. New to Uruguay.

*Hemithecium rufopallidum* (VAINIO) STAIGER

**TT:** Quebrada de los Cuervos: 32°54'S/54°25'W, 1970, on bark of *Eucalyptus*, OSORIO 6062a, 6062b, 6035, det. K. KALB 2006. First record of this genus in Uruguay.

*Heterodermia diademata* (TAYL.) AWASTHI

**SO:\*/**Rio Negro, Isla Asencio de Abajo: 33°20'S/58°11'W, 1970, on bark, OLAZARRI s.n. (MVM 17.229).

*Hyperphyscia syncolla* (TUCK.) KALB

**SO:\*/**Rio Negro, Isla Barrientos: 33°19'S/58°10'W, 1970, on branches, OLAZARRI s.n. (MVM 17.232)

*Ochrolechia subpallescens* VERS. f. *uruguayensis* VERS.

**AR:** Bella Unión, 30°15'S/57°47'W, 1948, on wooden fence post, OSORIO 1474. Formerly published as *O. pallescens* (MAGNUSSON 1950:234).

**FS:** Hwy 3: km 241: 33°11'S/57°04'W, 1956, on wooden fence post, OSORIO 3543.

**MA: \*/** Sierra de las Ánimas: 34°46'S/55°19'W, 1948, on wooden fence post, alt. 500 m.s.m. OSORIO 1547.

**TA: \*/** Rincón de la Laguna (3 km SW of Ansina Town: 31°34'S/55°28'W), 1947, on wooden fence post, OSORIO 1159, on bark of tree, OSORIO 1169.

All the above-listed *Ochrolechia* were identified by K. VERSEGHY in 1960 .

*Pertusaria colorans* MALME var. *glebosa* (RÄS.) H. MAGN.

**LA:** \*/ Sierra de Valencia (10 km SW of Minas City: 34°23'S/55°14'W), 1949, on rocks, PEREZ s.n (HO 1508).

**MA:** \*/ Abra de Perdomo: 34°44'S/54°48'W, 1949, on rocks, top of a hill, OSORIO 1914.

*Pertusaria straminella* MALME

**SJ:** \*/ San José de Mayo: 34°20'S/56°42'W, 1949, on shrubs, CAMACHO s.n. (HO 2540).

*Punctelia microsticta* (MÜLL ARG.) KROG

**FS:** \*/ Barra del Sauce (45 km S of Trinidad City: 33°32'S/56°54'W), 1949, on bark, CAMACHO s.n.(HO 2102)

*Pyrenula commixta* MALME

**MA:** \*/ Sierra de las Ánimas, Source of Arroyo Pedregoso: 34°46'S/56°20'W, 1979, on *Blepharocalyx*, OSORIO 7656.

*Ramalina sprengelii* KROG & SWINSCOW

**CL:** Estancia Santa Inés (4 km W of Paso del Dragón: 32°45'S/53°44'W), 1974. Formerly published as *R. usnea*, race III, RUNDEL 1978:151 (OSORIO 1998:7).

Cañada El Barón (35 km NNE of Melo City: 32°22'S/54°11'W), 2002, (OSORIO 2003:8).

Cañada del Vichadero and Rio Yaguarón (near Paso Centurión: 32°07'S/53°44'W), 2002, (OSORIO 2003:8, VEZDA 2002:5).

**DU:** El Cordobés, Estancia Las Pitangas, El Prado: 32°30'S/55°19'W, 1953, (KASHIWADANI & KALB 1993:27).

Rio Negro, Paso de las Piedras: 32°25'S/55°25'W, 1974, on shrubs, small ravine 5 km S of Paso de las Piedras, OSORIO 6986.

Rio Negro (1 km E of the km 329 railroad station: 32°26'S/55°24'W), 1974, shrubs on riverside, OSORIO 7014.

Arroyo El Cordobés, Paso de la Cruz: 32°30'S/55°19'W, 1953 (KASHIWADANI & KALB 1993:27) 1953, on shrubs, OSORIO 2728, det. H. KASHIWADANI 1990, filed as *R. usnea* var. *capensis* (NYL.) ZAHLBR., det. A. H. MAGNUSSON 1957.

**FS:** \*/ Arroyo Porongos, Paso de las Muchas (16 km NE of Trinidad City: 33°32'S/56°54'W), 1988, PRIGIONI s.n. (MVM 16.636).

**LA:** Hwy 8: km 209, Estancia Madeiros (10 km S of Pirarajá Town: 33°44'S/54°45'W), 1956, OSORIO 3693 (KASHIWADANI & KALB 1993:27), already published as *R. usnea* (RUNDEL 1978:151), OSORIO 3664, det.H. KASHIWADANI 1990 (OSORIO 2000:5) and filed as *R. usnea* var. *capensis* (NYL.) ZAHLBR., det. A. H. MAGNUSSON 1957.

**RO:** Cabo Polonio, Cerro Buena Vista: 34°24'S/53°46'W, 1980, published as *R. usnea* (OSORIO 1998:7).

Cerros de Navarro, Quebrada de los Higueros: 34°05'S/53°45'W, 2003 (VEZDA 2003:2).

Hwy. 16, Cerro Aspero (8 km NW of Laguna Negra: 34°03'S/53°40'W), 1967, OSORIO 5722, 5729 (OSORIO 1995:9), 1967, OSORIO 5745 (KASHIWADANI & KALB 1993:28).

Lascano, Estancia La Doma (33°42'S/53°52'W), 2000, (OBERMAYER 2002:27, OSORIO 2001:5)

Sierra San Miguel, Cerro Picudo (33°42'S/53°34'W), 1972. Published as *R. usnea* Race III, RUNDEL 1978:151 (OSORIO 1992:39); same locality, 1986, published as *R. usnea* (OSORIO 1992:39)

**TA:** Arroyo Malo, Paraje Once Cerros (20 km SE of Curtina Town: 32°09'S/56°07'W), 1973, MONES s.n. (MVM 17.634).

Rincón de la Laguna (3 km SW of Ansina Town: 31°34'S/55°28'W), 1947, OSORIO 1150 (KASHIWADANI & KALB 1993:27), published as *R. usnea* (MAGNUSSON 1950:235)

**TT:** Quebrada de los Cuervos (32°54'S/54°25'W), 1988, ACHAVAL s.n. (MVM 16.571), 1970, OSORIO 6043 (KASHIWADANI & KALB 1993:27, MOBERG 2005:13, OBERMAYER 2004:25), 2003, SCARABINO s.n. (OBERMAYER 2004:25, OSORIO 2003:8).

*Ramalina usnea* (L.) HOWE

**AR:** Arroyo El Tigre and Rio Uruguay (10 km W of Colonia Palma: 30°40'S/57°49'W), 1975, OSORIO 7271 (OBERMAYER 1999:24, OSORIO 1978:55)

**RO:** Fortaleza de Santa Teresa: 33°59'S/53°32'W, 1946, LOMBARDO s.n. (OSORIO 2003:8).

Sierra de San Miguel, Cerro de la Guardia Perdida: 33°42'S/53°34'W, 1989, OSORIO 9182 (OBERMAYER 1999:25, OSORIO 1992:39).

Valizas: 34°30'S/53°58'W, 1988, URETA s.n. (OSORIO 1998:7)

**TT:** Cuchilla de Dionisio, Estancia La Teja (4 km E of Quebrada de los Cuervos: 32°54'S/54°25'W), 1970, OSORIO 6084 (OSORIO 2003:8).

*Rinodina connectens* MALME

**CA:** \*/ Santa Lucía: 34°27'S/56°24'W, 1951, on *Salix*, OSORIO 3430.

*Rinodina conspersa* MÜLL ARG.

**DU:** \*/ La Paloma: 32°43'S/55°36'W, 1953, rocks in a meadow, OSORIO 2887.

**MA:** \*/ Cerro Pan de Azúcar: 34°50'S/55°16'W, 1951, on rocks, *Eucalyptus* forest, OSORIO 4650.

*Rinodina intrusa* (KREMP. ap. NYL.) MALME

**DU:** \*/ Arroyo El Cordobés, Paso de la Cruz: 32°30'S/55°19'W, 1953, on shrubs, OSORIO 2844.

\*/ Rio Negro (1 km E of the km 329 railway station: 32°26'S/55°24'W), 1974, on riverside shrubs, OSORIO 7010.

**LA:** \*/ Fuente Salus (10 km SW of Minas City: 34°23'S/55°14'W), 1956, on roadside *Salix*, OSORIO 3615

**MA:** \*/ Piriapolis: 34°54'S/55°14'W, 1961, on *Pinus*, on Rio de la Plata shore, OSORIO 4578.

*Tephromela atra* (HUDS.) HAFELLNER.

**AR:** \*/ Arroyo el Catalancito and Route 30 (25 km SE of Artigas City: 30°24'S/56°28'W), 1948, on wooden fence post, OSORIO 1470.

## Results

The genera *Enterographa* and *Hemithecium* and the species *Graphis tenuescens*, new to the Uruguayan lichen flora, and 33 new Departmental records are listed. A very small number of taxa are recorded for the first time from the islands of the Rio Negro and Rio Uruguay, but, unfortunately, the lichen flora of these islands still remains unknown.

The *Ramalina sprengelii* and *R. usnea* complex, with one exception, is restricted to an area delimited as follows: north: parallel 32°, west: meridian 55°, and south and east by the Uruguay-Brazil border and the Atlantic Ocean. The occurrence of both species in this area are the southernmost records in South America.

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MUSEO NACIONAL DE HISTORIA NATURAL Y ANTROPOLOGÍA  
CASILLA DE CORREO 399  
11.000 MONTEVIDEO, URUGUAY  
FAX: (005982) 917-0213  
E-MAIL: MNHN@INTERNET.COM.UY  
HTTP://WWW.MEC.GUB.UY/MUNHINA

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Edición de 600 ejemplares

Agosto 2007

Depósito Legal N° 331.416/03