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CONTRIBUTION TO THE LICHEN FLORA OF URUGUAY XL NEW OR ADDITIONAL RECORDS

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ABSTRACT: *Diploschistes cinereocaesius*, *Parmotrema xanthinum* and *Punctelia lorentzii* are added to the known flora of Uruguay. Eighty-four new Departamental records are listed.

RESUMEN: *Diploschistes cinereocaesius*, *Parmotrema xanthinum* y *Punctelia lorentzii* se incorporan a la flora de Uruguay. Se enumeran ochenta y cuatro nuevos registros Departamentales.

Key words: Lichens - lichenicolous fungi - Uruguay - distribution.

Palabras claves: Liqueenes – hongos liquenicolas – Uruguay – distribución.

Introduction

In the course of preparation of a paper dealing with the biodiversity of the Uruguayan lichens and lichenicolous fungi I found an unexpected number of unpublished new records. All these finds are included in the following list together with some new records for the country. The numbers between parenthesis belongs to the author's private herbarium.

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List of species

Bulbothrix viridescens (LYNGE) HALE

CANELONES: Parque Nacional "F. D. Roosevelt" (between Avenida de las Americas and Camino Carrasco) 34°51'13"S/56°02'04"W, 1986, on trunk of *Eucalyptus* (8597) on branches of *Quercus* (8602).- Balneario La Tuna, 34°47'S/55°33'W, 1985, on branches of *Dodonea viscosa* (8466).- Balneario Cuchilla Alta, 34°58'S/55°29'W, 1986, on *Dodonea viscosa* in a *Pinus* and *Acacia* plantation (8611)

FLORES: Route 3:km 241, 33°11'S/57°04'W, 1950, on *Melia azedarach* (3595)

LAVALLEJA: Abra de Cotto (175 km N from Cerro de las Animas: 34°46'S/55°19'W), 1969, on shrubs (6482)

MALDONADO: Piriapolis, Cerro del Toro, 34°54'S/55°17'W, 1961, on trunk of *Dodonea viscosa*, southern slope of the hill, alt. 50-100 (4584)- Cerro Pan de Azúcar, 34°50'S/55°16'W, 1948, on *Dodonea viscosa*, foot of the hill (1528)

Formerly known in a limited area in South Uruguay (HALE 1976:25). The above reported collections enlarged the distributional area in the Uruguay south from the Rio Negro.

Caloplaca cinnabarina (ACH.) ZAHLBR.

COLONIA: Cerros de San Juan, 34°12'S/57°57'W, 1969, on rocks in the N slope (6276), on rocks, top of the hill (6267).

FLORES: Route 3: km 241, 33°11'S/57°04'W, 1956, on rocks (3454, 3494).

TREINTA Y TRES: Quebrada de los Cuervos, 32°54'S/54°25'W, 1970, on rocks at roadside, 1 km E from the ravine, (5966).

Caloplaca erythrantha (TUCK.) ZAHLBR.

DURAZNO: La Paloma, 32°43'S/55°35'W, 1953, on trunk, (2872).

FLORES: Route 3: km 241, 33°11'S/57°04'W, 1956, on branches of *Celtis tala*, (3471)- Arroyo Sarandi, Paso de los Ahogados (3 km N from Trinidad City:33°32'S/56°54'W), 1969, on trunk of *Salix* (6373).

FLORIDA: Est.25 de Agosto, 34°24'S/56°26'W, 1949, on wooden fence post, (2433),1947, on trunk of *Acacia farnesiana* (1027).

LAVALLEJA: Minas, Fuente Salus, 34°23'S/55°14'W, 1956, on trunk of *Salix*, (3605, 3607)- Minas, 1956, on *Ficus* in a farm, (3889).- Las Achiras, (near Piraraja Town: 33°44'S/54°45'W), 1956, on trunk of *Eucalyptus*,(3650).- Cerro Arequita: 34°05'S/55°05'W, 1949, on branches of shrubs, (2456).

MALDONADO: Abra de Perdomo, 34°44'S/54°58'W, 1949, on trunk of *Ficus carica* (1888), on trunk of tree (1889).- Abra de Castellanos (14 km N from Cerro de las Animas:34°46'S/55°19'W) 1969, on trunk of *Blepharocalyx* (6767)- Paso Real (Cross of Route 9 and Arroyo Pan de Azúcar: 34°54'S/54°57'W), 1949, on trunk of *Pirus*, (1614).- Pan de Azúcar City, Parque Municipal, 34°48'S/55°14'W, 1968, on *Blepharocalyx* (5069) on *Salix fragilis* (5062).

PAYSANDU: Route 3 and Arroyo Sacra, 32°19'S/58°05'W, 1948, on trunk of tree, (1422)

SAN JOSE: San Jose de Mayo, 34°22'S/56°42'W, 1949, on trees, leg. O. Camacho s.n.(herb. OSORIO no 2537).

TREINTA Y TRES: Quebrada de los Cuervos, 32°54'S/54°25'W, 1970, on trunk of *Ficus carica* on an *Eucalyptus* plantation (5987).

Caloplaca puiggarii (Müll.Arg.) Zahlbr.

COLONIA: Cerros de San Juan, 34°12'S/57°57'W, 1969, on rocks, top of the hill,(6281).

FLORES: Route 3: km 241, 33°11'S/57°04'W, 1956, on rocks with *Caloplaca cinnabarina*, (3451)

Caloplaca subsoluta (NYL.) ZAHLBR.

COLONIA. Cerros de San Juan, 34°12'S/57°57'W, 1969, on rocks, top of the hill, confirm. CL. WETMORE ix.2003 (6268.a, 6278)- Paso Antolin (20 km NW from Tarariras Town: 34°17'S/57°37'W). 1969, on rocks in an old quarry (6293).

FLORES: Route 3: km 241, 33°11'S/57°04'W, 1956, on rocks, wooded ravine, with *Rinodina conspersa*, (3446).

LAVALLEJA: Arroyo Aguas Blancas, 34°53'S/54°47'W, 1967, on dry roots of a shrub, alt. 100m, confirm. CL. WETMORE ix 2003 (4974).- Cerro Penitente, 34°20'S/55°07'W, 1953, on rocks in a meadow,(3310).

Cecidioskyttea osorioi ETAYO

LAVALLEJA: Aguas Blancas, 34°53'S/54°47'W, 1967, on *Concamerella pachyderma*, on rocks, margin of a brook, alt. 100m, det. J. ETAYO 2004, (4956 *pr.p.*)

SAN JOSE: Sierra Mahoma, 34°05'S/56°56'W, 1975, on *Concamerella pachyderma*, on rocks, alt.100-150m. det. J. ETAYO 2004, leg. M. PIAGGIO s.n.(herb. OSORIO 9710 *pr.p.*)

Formerly known only from the type locality in East Uruguay (ETAYO & OSORIO 2004:7)

Diploschistes cinereocaesius (Sw.) VAINIO

DURAZNO: La Paloma, 32°43'S/55°36'W, 1953, on sandstone, det. H. T. LUMSCH 2002, (2889). This species is here reported in Uruguay for the first time. All the collections from *Diploschistes cinereocaesius* and *D. subscruposus* already published (OSORIO 1972:14) were based in misidentifications and redetermined as *Diploschistes conceptionis* (OSORIO 1993:2)

Ingvariella bispora (BAGL.) GUDERLEY & LUMBSCH

COLONIA: Cerros de San Juan, 34°12'S/57°57'W, 1969, on rocks, N slope (6275, 6292), top of a hill (6284).

FLORES: 3ª. Seccion, Arroyo Marincho, 33°11'S/57°94'W, 1956, rocks in a meadow, confirm. H. T. Lumbsch 1991 (3405, 3496)

LAVALLEJA: Minas, Parque de la UTE, 34°23'S/55°14'W, 1967, on rocks in a W exposed slope,(4939)- Villa Serrana, 34°17'S/54°59'W, 1956, on rocks, E exposed slope, alt. 300m, (3865),.

MALDONADO: Cerro Pan de Azúcar, 34°50'S/55°16'W, 1951, on rocks at roadside, alt.200m, (4649)- Balneario Punta Colorada, 34°55'S/55°16'W, 1949, on rocks in a meadow, (1879).- Piriápolis, Punta Fria, 34°54'S/55°17'W, 1950, on rocks in a meadow, aerohalin zone, (2324).- Piriápolis, Rambla Costanera, 34°54'S/55°17'W, 1951, on rocks, lower aerohalin zone, (2724).- Sierra de las Animas, road to the Mirador Nacional, 34°42'S/55°19'W, 1950, on rocks at roadside, alt. 100-200 m, (2320).- Punta Colorada, 34°55'S/55°16'W, 1960, on rocks in a meadow, aerohalin zone, (4561).

TREINTA Y TRES: Quebrada de los Cuervos, 32°54'S/54°25'W, 1970, on rocks, 1 km E from the ravine, (5967).- Cuchilla de Dionisio, Estancia La Teja, (4 km E from Quebrada de los Cuervos:32°54'S/54°25'W), 1970, on rocks in a meadow, (6074).

Lecanora addubitata KREMP.

COLONIA: Cerros de San Juan, 34° 12'S/57°57'W, 1969, on rocks, very common, alt.100m, (6283).

DURAZNO: El Cordobes, Estancia Las Pitangas, El Prado, 32°30'/55°19'W, 1953, on rocks, S slope (2964).

Lecanora farinacea FEE

COLONIA: Cerros de San Juan, 34°12'S/57°57'W, 1969, on rocks, top of a hill, alt.100m, (6277).

DURAZNO: Road La Paloma to Estacion km 329 (10 km N from La Paloma Town 32°43'S/55°36'W) 1974, on sandstone, alt.200m, (7022).

TREINTA Y TRES: Quebrada de los Cuervos,32°54'S/54°25'W, 1970, on rocks in a meadow (5964).

Lecanora fusca MÜLL. ARG.

COLONIA: Cerros de San Juan, 34°12'S/57°57'W, 1969, on rocks, very comon, (6266)

TREINTA Y TRES: Quebrada de los Cuervos, 32°54'S/54°25'W, 1970, on rocks 1 km E from the ravine (5956)- Cuchilla de Dionisio, Estancia La Teja (4 km E from Quebrada de los Cuervos:32°54'S/54°25'W), on rocks, very comon (6073).

Lecanora oreinoides (KOERB.) HERTEL & RAMBOLD

FLORES: Cross of Route 3 and Arroyo Marincho , 33°11'S/57°04'W, 1956, on rocks in a meadow, (3497).- Route 3: km 241, 33°11'S/57°04'W, on rocks in a small ravine, (3448)

FLORIDA: Cross of Route 41 and Arroyo Sauce de Mansavillagra, 33°32'S/55°42'W, 1974, on rocks in a meadow,(7034).

Parmotrema tinctorum (NYL.) HALE

MALDONADO: Sierra de las Animas, 34°42'S/55°19'W, 1964, on rocks, W slope of the hill 190, alt. 100 m, (4886).

TREINTA Y TRES: Quebrada de los Cuervos, 32°54'S/54°25'W, 1970, on trunk of *Eucalyptus*, 1 km W from the ravine, (6046)

Parmotrema xanthinum (MÜLL.ARG.) HALE

ROCHA: Route 16: km 18. 34°05'41"S/53°51'04"W, 2003, on trunk of *Butia capitata*, alt. 50m, det. J. A. ELIX II.2004. Comp.Quim. (J.A.Elix II.04)
Gyrophoric acid, 2-methylene-3R-carboxy-18R-hydroxynonadecenoic acid.
Leg. H.S.OSORIO 9651 & G. GEYMONAT
This species is here recorded in Uruguay for the first time.

Pertusaria velata (TURNER) NYL.

CANELONES: Bañado del Negro, 34°48'S/55°57'W, 1980, on trunk and branches of *Populus*, (5155, 5157)

DURAZNO: Arroyo del Estado, 32°29'S/55°24'W, 1953, on branches of shrubs (3014).- Rio Negro, Paso de las Piedras, 32°25'S/55°25'W, 1974, on shrubs, ravine 2 km S from Paso de las Piedras (6955), on trees, ravine 5 km S from Paso de las Piedras, (6988)- Road from Est. Km 329 to Paso de las Piedras (10 km N from la Paloma Town: 32°43'S/55°36'W).on wooden fence pole, (6939).

FLORES: Route 3: km 241, 33°11'S/57°04'W, 1956, on *Celtis tala* (3472), on wooden fence pole (3553).

LAVALLEJA: Route 9: km 209, Estancia Madeiros (10 km S from Piraraja Town: 33°44'S/54°45'), 1955, on trees, marginal forest of Cebollati River, leg A. A. Osorio s.n. (Herb. Osorio 3890)

Phoma fistulata ETAYO & OSORIO

LAVALLEJA: Aguas Blancas, 34°53'S/54°47'W, 1967, on *Concamerella pachyderma*, on rocks, bank of a brook, alt. 100m, vid. J. Etayo 2004 (4956 *pr.p.*)

ROCHA: Sierra de San Miguel, Cerro Picudo, 33°42'S/53°34'W, 1986, on *Concamerella fistulata*, on rocks, alt. 100m, leg. C. PRIGIONI s.n. (herb. OSORIO 9712 *pr.p.*)- Laguna Negra, 34°03'S/53°40'W, 1967, on *Concamerella fistulata*, on rocks, (5671 *pr.p.*)- Route 16, Cerro Aspero (8 km NW from Laguna Negra: 34°03'S/53°40'W.), 1967, on *Concamerella pachyderma*, on rocks, E exposed slope (5700 *pr.p.*).

SAN JOSE: Sierra Mahoma, 34°05'S/56°56'W, 1975, on *Concamerella pachyderma*, on rocks, alt. 100-150m, vid. J. ETAYO 2004, leg. M. PIAGGIO s.n. (herb. OSORIO 9710 *pr.p.*)

BRASIL: Rio Grande do Sul, Caçapava do Sul, 30°30'S/53°30'W, 1976, on *Concamerella pachyderma*, on rocks, leg. S. WINKLER s.n. (herb. OSORIO 9717 *pr.p.*)

Formerly known only from the type locality in East Uruguay (ETAYO & OSORIO 2004:10).

This species is here recorded from Brazil for the first time

Pseudocyphellaria aurata (ACH.) VAINO

DURAZNO: Rio Negro, Paso de las Piedras, 32°25'S/55°25'W, 1974, on trees, small ravine 5 km S from Paso de las Piedras (6985).

Punctelia lorentzii (KREMP.) KROG

MALDONADO: Sierra de las Animas, Cañada Totorá, 34°45'S/55°20'W, 1981, on rocks, alt. 50-100m, det. R. EGAN I.2005 (5221)

This species is here recorded in Uruguay for the first time.

Pyrrhospora russula (ACH.) HAF.

FLORES: Arroyo Sarandi, Paso de los Ahogados (3 km N from Trinidad City: 33°32'S/56°54'W), 1969, on wooden fence pole, (6391)
 LAVALLEJA: Arroyo La Calera and Route 8 (near Mariscal Town: 34°03'S/54°47'W), 1956, on wooden fence pole, (3618).- Cerro Penitente, 34°20'S/55°07'W, 1953, on rocks in a meadow (3309)
 MALDONADO: Cerro Pan de Azúcar, 34°50'S/55°16'W, 1948, on rocks at roadside, alt. 250-300m, (1538), on rocks, top of the hill, 1946 (849)- Sierra de las Animas, road to the Mirador Nacional, 34°42'S/55°19'W, 1976, on rocks at roadside, alt. 400m, (7311, 7318), 1950, on rocks at roadside, alt. 100m, (2306), Sierra de las Animas, Cerro 140, 1950, on rocks at roadside, alt. 100m, (2298)- Mirador Nacional, 34°46'S/55°19'W, 1948, on rocks, alt. 500m. (1566.), 1976, alt. 450m, (7343)- Piriápolis, Cerro San Antonio, 34°54'S/55°17'W, on rocks, (2712)
 RIVERA: Subida de Mendez, Campo Los Potrereros, (near Tranqueras Town: 31°12'S/55°45'W), 1947, on trees, (1090).

Teloschistes chrysophthalmus (L.) TH. FR.

CANELONES. Bañado del Negro, 34°48'S/55°57'W, 1980, on *Salix*, scarce, (5129).- Estacion Margat, (5 km NW from Canelones City: 34°32'S/56°17'W), 1944, on shrubs, (368).
 DURAZNO: Arroyo del Estado, 32°29'S/55°24'W, 1953, on shrubs, (3015).- El Cordobés, Estancia Las Pitangas, El Prado, 32°30'S/55°19'W, on shrubs, (3000).- Arroyo El Cordobés, Paso de la Cruz, 32°30'S/55°19'W, on *Acacia*, (2775), on *Scutia*, (2759). Both collections growing in the marginal forest of the Arroyo El Cordobés.
 LAVALLEJA: Cerro Arequita, 34°10'S/55°05'W, 1949, on shrubs, S slope, (2067).
 MALDONADO: Arroyo Pan de Azúcar, Paso Real (near Pan de Azúcar City: 34°54'S/54°57'W) 1950, on shrubs, (2338)

Teloschistes exilis (MICHX.) VAINIO

DURAZNO: El Cordobés, Estancia Las Pitangas, El Prado, 32°30'S/55°19'W, 1953, on rocks (2997), on shrubs (3001).- Arroyo El Cordobés, Paso de la Cruz 32°30'S/55°19'W, 1953, on shrubs, marginal forest of the Arroyo El Cordobés (2770) - Rio Negro, Paso de las Piedras, 32°25'S/55°25'W, on shrubs, small ravine 2 km S from Paso de las Piedras (6972)- Road from Est. Km 329 to Paso de las Piedras, 32°25'S/55°25'W, 1974, on wooden fence pole at roadside, (6947).
 FLORES. 3ª. Secc., Arroyo Marincho, 33°11'S/57°04'W, 1956, on *Celtis tala*. (3518).

Usnea densirostra TAYLOR

CANELONES: Lagomar, Los Pinos Street and Street Nr 7, 34°49'S/55°56'W, 2005, growing on a plastic roof, (9718).
 This is the first record of this saxicolous species growing on an artificial

substract

Results

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

- a) *Diploschistes cinereocaesius*, *Parmotrema xanthinum* and *Punctelia lorentzii* are added to the known flora of Uruguay
- b) *Cecidioskyttea osorioi* and *Phoma fistulata* enlarge significantly its distributional area in the country. The last species is added to the known flora of Brazil
- c) From 16 lichen species already known in the country 84 new Departamental records are listed.

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