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CONTRIBUTION TO THE LICHEN FLORA OF URUGUAY III. SOME ADDITIONAL NEW LOCALITIES

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During the last years, little but interesting lichens' collections have been added to the Herbarium of the Natural History Museum of Montevideo (MVM). These samples were collected by members of the staff of the Museum, to whom the author is deeply grateful.

The studied materials have been collected from parts of the country whose lichen's flora was little known and consequently we deem interesting to present our results.

Moreover, in this paper we are including both material belonging to the Herbarium of the Botanical Laboratory of the "Facultad de Humanidades y Ciencias" of Uruguay (MVFHC) and to Guillermo Herter's collection which was kept in the Natural History Museum of Montevideo.

The latter collection is not at present in this Museum, it was sent to Europe and we ignore where it was deposited.

I wish to give my sincerest thanks to Mrs. N. García Zorrón de Rosengurt and Mr. Diego Legrand who have helped me in various ways during the present work.

Unless something else is stated, all the specimens were identified by the author.

LIST OF SPECIES

Acarospora boliviana H. MAGN.

Maldonado: Piriápolis, 1938. On stones, with *Caloplaca cinnabarrina*. Herter 60323. (in herb.).

Bacidia megapotamica MALME.

Canelones: Parque Nacional de Carrasco, 1960. On bark of *Terminalia australis*. García Zorrón 2366. a. (MVFHC).

Caloplaca cerina (EHRH.) TH.FR.

Montevideo: Toledo Chico, 1947. On *Fraxinus*, 40 m.s.m. Herter 99770. (in herb.).

Caloplaca cinnabarina (ACH.) ZAHLBR.

Lavalleja: Arequita, 1966. On stones. García Zorrón 3905. (MVFHC).

Maldonado: Piriápolis, 1938. On stones. Herter 60320-60322-60323. (in herb.). The latter number with *Acarospora boliviana*.

Caloplaca erythrantha (TUCK.) ZAHLBR.

Canelones: Parque Nacional de Carrasco, 1961. Corticolous. García Zorrón 2965. (MVFHC).

Colonia: Colonia Valdense, 1957. On twigs with *Candelaria fibrosa*. Klappenbach. (MVM).

Montevideo: Prado + Jardín Botánico, 1961. On bark. García Zorrón 2786. (MVFHC); Toledo Chico, 1947. On *Fraxinus*, 40 m.s.m. Herter 99771 (in herb.).

Caloplaca xanthaspis (KRPLH.) H.MAGN.

Cerro Largo: Arroyo Zapallar, 1961. On bark. Praderi. (MVM).

Maldonado: Cerro Senci6n, 1961. On bark. San Mart6n. (MVM).

Candelaria concolor (DICKS.) ARN.f. *substellata* NYL.

Rocha: Ruta 9, Arroyo del Sauce, 1962. On bark with *Normandina pulchella*. San Mart6n. (MVM).

Candelaria concolor (DICKS.) ARN. var. *Vainioana* RAES.

Treinta y Tres: La Charqueada, 1955. With *Teloschistes exilis*. Mart6nez Macchiavello. (MVM). Paso de las Piedras, Molinos de Perinetti, 1955. On bark. Wilson P6rez. (MVM).

Candelaria fibrosa (FR.) MÜLLER. ARG.

Canelones: Parque Centenario, 1937. On twigs. Rosa Mato 1763. (MVM 15352.).

Colonia: Colonia Valdense, 1957. On twigs with *Caloplaca erythrantha*. Klappenbach. (MVM).

Cladonia aggregata (SW.) ACH.

Cerro Largo: Sierra de los R6os, 1937. 100-150 m.s.m. Herter 98417.c. (in herb.).

Maldonado: Sierra de las Ánimas, 1938. On stony ground, 50 m.s.m. Herter 99630. (in herb.); 1961. On the summit, 500 m.s.m. San Martín. (MVM).

Lavalleja: Arequita, 1966. García Zorrón. (MVFHC).

Rocha: Castillos, 1931. On argillaceous earth, 50 m.s.m. Herter (in herb.).

Tacuarembó: Gruta de los Cuervos, 1960. On stones. García Zorrón 2065-3266. (MVFHC).

In our country this species don't show the polymorphy reported by W. MARTIN (1965) in the collections from New Zealand and Australia.

Cladonia didyma (FEE)VAIN

Canelones: Balneario El Bosque, 1960. On sandy soil. García Zorrón 2638 (MVFHC).

Cladonia fimbriata (L.)FR.var.*minor*(HAG.)H.MAGN.

Canelones: Parque Nacional de Carrasco, 1960. On sandy soil. García Zorrón 2525, 2549. (MVFHC).

Cladonia furcata (HUDS.)SCHRAD.var.*racemosa*(HOFFM)FLK.f.*furcato-subulata* (HOFFM.)VAIN.

Treinta y Tres: Quebrada de los Cuervos, 1966. García Zorrón 3267 (MVFHC).

Cora montana (SW.)R.SANT.

Colonia: Salto de San Luis, 1947. 80-100 m.s.m. Herter 61310 (in herb.).

Lavalleja: Arequita, 1966. García Zorrón 3907. (MVFHC); Penitente, Arroyo Aniceto, 1924. On earth, 300 m.s.m. Herter 75025. (in herb.).

Maldonado: Cerro Pan de Azúcar, 1928. Between stones, 300-400 m.s.m. Herter 83679 (in herb.). Sierra de las Ánimas, 1938. 50 m.s.m. Herter 99580-99630-96913 (in herb.); 1929. 200 m.s.m. Herter 85222 (in herb.); 1930. 400 m.s.m. Herter 86107.a. (in herb.); 1932. With *Selaginella* sp., Herter 91098 (in herb.).

Rivera: Livramento, 1937. Between stones, 250-300 m.s.m. Herter 99061 (in herb.); Ruta 5, Curticeiras, 1960. On sandy soil. García Zorrón 2075. (MVFHC); Tranqueras, 1948. 150-200 m.s.m. Herter 99971 (in herb.).

Dimerella lutea (DICKS.) TREV.

Lavalleja: Villa Serrana, 1959. On bark in the forest of a ravine. García Zorrón 1912. (MVFHC).

Diploschistes montevidensis H. MAGN.

Lavalleja: Carretera Pan de Azúcar, Minas, 1963. On the soil. García Zorrón 3034 (MVFHC).

Montevideo: Parque Lecocq, 1961. On the soil. García Zorrón 2758 (MVFHC).

Graphis Pavoniana FEE.

Rocha: Fortaleza de Santa Teresa, 1967. On small twigs, perhaps of *Pinus sp.* García Zorrón 3280 (MVFHC).

Not previously recorded from Uruguay.

Herpothallon sanguineum (SW.) TOBLER.

Cerro Largo: Fraile Muerto, 1966. On siliceous sandstone Acha-val. (MVFHC nr. 3243).

Lecidea icterica (MONT.) NYL.

Lavalleja: Penitente, 1924. On the soil, 300 m.s.m. Herter 75022 (in herb.).

Montevideo: Parque Lecocq, 1961. On the soil. García Zorrón 2756 (MVFHC); Cerro de Montevideo, 1933. On earth, 100 m.s.m. Herter 91326 (in herb.).

Salto: Termas del Arapey. On the soil. San Martin (MVM).

Leptogium phyllocarpum (PERS.) MONT.

Tacuarembó: Ruta 44, Arroyo Yaguary, 1961. Rosengurt B. 8233.a. (MVFHC).

Leptogium phyllocarpum (PERS.) MONT. var. *campestre* MALME

Treinta y Tres: Quebrada de los Cuervos, 1966. On mossy bark. García Zorrón 3276 (MVFHC).

Leptogium simplicius VAIN. var. *pichneoides* DODGE.

Rivera: Ruta 5, Curticeiras, 1960. On bark. García Zorrón 2108 (MVFHC).

Leptogium Tuckermani DODGE.

Tacuarembó: Ruta 44, Arroyo Yaguary, 1961. On trunks. García Zorrón 2867 (MVFHC).

Lobaria cuprea. (MÜLL.ARG.)ZAHLEBR.

Tacuarembó: Ruta 44, Arroyo Yaguary, 1961. On trunks. Rosengurt. (MVFHC nrs. 2864,2874,2876).

Lobaria quercizans (MICHX.)VAIN.var.*aequalis* VAIN.

Cerro Largo: Sierra de los Ríos, 1937. On stones, 100-150 m.s.m. Herter 98409 (in herb.).

Not previously recorded from Uruguay.

Lobaria quercizans (MICHX.)VAIN.var.*erosa* (ESCHW.) VAIN.

Cerro Largo: Arroyo Palleros, 1926. On bark, 100 m.s.m. Herter 80976 (in herb.).

Lavalleja: Carretera Pan de Azúcar, Minas, 1963. On bark of *Rapanea laetevirens*. García Zorrón 3052 (MVFHC); Zapicán, 1960. On *Salix* sp. San Martín (MVM).

Montevideo: Pajas Blancas, 1935. On bark, 10' m.s.m. Herter 95814 (in herb.).

Tacuarembó: Ruta 44, Arroyo Yaguary, 1961. Rosengurt (MVFHC nr. 2864.a.).

Treinta y Tres: Vergara, 1932. On bark, 20 m.s.m. Herter 90780 (in herb.).

Lopadium leucoxanthum (SPRENG.) ZAHLEBR.

Treinta y Tres: Vergara, 1932. On bark. 20 m.s.m. Herter 88808 (in herb.).

Normandina pulchella (BORR.) NYL.

Rocha: Ruta 9, Arroyo del Sauce, 1962. On bark, with *Candelaria concolor* f. *substellata*. San Martín (MVM).

Parmelia delicatula VAIN.

Lavalleja: Arequita, 1966. García Zorrón 3093 (MVFHC).

Rocha: Fortaleza de Santa Teresa, 1967. On stones. García Zorrón 3281 (MVFHC).

The material by me studied belong to the broad lobed type described by LYNGE as *Parmelia magna* and recently included by HALE (1965) as a synonym of *P. delicatula*.

Parmelia fistulata TAYL.

Lavalleja: Arequita, 1966. García Zorrón 3901 (MVFHC); 1934. Chebataroff (in herb. Herter nr. 98217); Cerro Penitente, 1935. Herter 95390 (in herb.).

Maldonado: Cerro Pan de Azúcar, 1930. On granitic stones, 300 m.s.m. Herter 86106 (in herb.); Sierra de las Ánimas, 1933. On stones, 500 m.s.m. Herter 93458 (in herb.).

Parmelia lindmanii LYNGE.

Cerro Largo: Arroyo Zapallar, 1961. On bark. Praderi (MVM).
Treinta y Tres: La Charqueada, 1955. On bark. Martínez Machiavello (MVM).

Parmelia papillosa LYNGE ex GYELN.

Maldonado: Río de la Plata, Is'la de Gorriti, 1950. On stones. Cordero (MVM).

Parmelia subbalansae GYELN.

Treinta y Tres: La Charqueada, 1955. On bark. Martínez Machiavello (MVM).

Pertusaria amaroides H.MAGN.

Rivera: Cañada Farrapos, 1962. On sandstone. San Martín (MVM).

Many of the soralia are greater: 0.8 mm.-1.5 mm. as in the original description (MAGNUSSON, 1950): 0.5-0.7 (1 mm.) and slightly convex. Being this the second record of this species we cannot value the taxonomical importance of this morphological difference.

Physcia carassensis VAIN.

Treinta y Tres: Paso de las Piedras, Molino de Perinetti, 1955. On bark. Wilson Perez (MVM).

Not previously recorded from Uruguay.

Physcia picta (Sw.) NYL.

San José: B. Pascual, 1931. On bark, 5 m.s.m. Herter 87422 (in herb.).

Not previously recorded from Uruguay.

Physcia solediosa (VAIN.) LYNGE.

Florida: La Palma, 1938. On trunks, 100 m.s.m. Herter 99426 (in herb.).

New to Uruguay

Physcia syncolla (TUCK.) ZAHLBR.

Canelones: Parador Tajés, 1963. On small twigs. García Zorrón 3015 (MVFHC).

Montevideo: Sayago, Facultad de Agronomía, 1963. On bark of *Ulmus* sp. Rosengurt (MVFHC nr. 2946).

Rocha: Ruta 9, Arroyo del Sauce, 1962. On bark with *Caloplaca erythrantha*. San Martin (MVM).

Protoblastenia russula (ACH.) RAES.

Canelones: Carrasco, 1946. On bark, 10 m.s.m. Herter 61037 (in herb.).

Durazno: Blanquillo, 1947. On red sandstone, 150 m.s.m. Herter 61668 (in herb.).

Florida: La Palma, 1938. On stones, 100 m.s.m. Herter 99442 (in herb.).

Pseudocyphellaria aurata (ACH.) VAIN.

Maldonado: Cerro Pan de Azúcar, 1930. On bark, 300 m.s.m. Herter 86134 (in herb.); Sierra de las Ánimas, 1963. On trunks of trees. Praderi (MVM); Piriápolis, Cerro del Toro, 1933. On stones. Herter 91196 (in herb.).

San José: Sierra de Mahoma, 1966. On trunks. Izaguirre (MVFHC nr. 3238).

Tacuarembó: Valle Edén, 1928. 150 m.s.m. Herter 83945 (in herb.); Ruta 44, Arroyo Yaguary, 1961. On trunks. García Zorrón 2782. det. M. Hale. (MVFHC).

Treinta y Tres: Treinta y Tres, 1966. On bark. García Zorrón 3937 (MVFHC); Vergara, 1932. On trunks, 20 m.s.m. Herter 90812 (in herb.); Yerbal, 1928. On small twigs, 200 m.s.m. Herter 83401 (in herb.).

Ramalina Ecklonii (SPRENG.) MEY. et FLOT.

Lavalleja: Zapicán, 1960. On *Salix* sp. San Martin (MVM).

Río Negro: San Javier, 1927. On twigs, 20 m.s.m. Herter 82836 (in herb.).

San José: Arroyo Mauricio, 1959. On bark. García Zorrón 1870 (MVFHC).

Soriano: Bizcocho, 1963. On twigs and bark. Izaguirre (MVFHC nr. 2974).

Treinta y Tres: Paso de las Piedras, Molino de Perinetti. 1955. On twigs of trees. Wilson Pérez (MVM); Treinta y Tres, 1966. García Zorrón 3938 (MVFHC).

Ramalina Ecklonii (SPRENG.) MEY. et FLOT.
var. *sublinearis* (NYL.) MALME.

Durazno: Arroyo El Cordobés, Paso del Sauce, 1961. On wood.
Millet (MVFHC nr. 2882).

San José: Rincón del Pino, 1963. On a pole. García Zorrón 2899
(MVFHC).

New to Uruguay.

Ramalina peruviana ACH.

Cerro Largo: Sierra de los Ríos, 1937. 100-150 m.s.m. Herter
98423 (in herb.).

Ramalina prolifera TAYL.

Cerro Largo: Arroyo Pablo Paez, 1961. On small twigs with
Teloschistes cymbalifer. Millet (MVFHC nr. 2880).

Florida: La Palma, 1938. 100 m.s.m. Herter 99421 (in herb.).

Montevideo: Parque Lecocq, 1960. On small twigs with *Teloschis-*
tes cymbalifer. García Zorrón 2498 (MVFHC).

Treinta y Tres: Vergara, 1932. 20 m.s.m. Herter 90818 (in herb.).

Ramalina usnea (L.) HOWE.

Rocha: Parque de San Miguel, 1960. García Zorrón 2284
(MVFHC).

Ramalina usnea (L.) HOWE var. *capensis* (NYL.) ZAHLBR.

Treinta y Tres: Quebrada de los Cuervos, 1966. García Zorrón
3263 (MVFHC).

Not previously recorded from Uruguay.

Sticta variabilis (BORY) ACH.

Tacuarembó: Ruta 44, Arroyo Yaguary, 1961. On trunks. Rosen-
gurt B. 8232 (MVFHC).

Not previously recorded from Uruguay.

Teloschistes chrysophthalmus (L.) TH. FR. var. *cinereus* MÜLL. ARG.

San José: Rincón del Pino, 1963. On a pole. García Zorrón 2898
(MVFHC).

Teloschistes cymbalifer (MEY.) MÜLL. ARG.

Cerro Largo: Arroyo Pablo Paez, 1961. On small twigs with *Ra-*
malina prolifera. Millet (MVFHC nrs. 2879-2880).

Treinta y Tres: Treinta y Tres, 1966. García Zorrón 3942 (MVFHC).

Teloschistes exilis (MICHX.) VAIN.

Cerro Largo: Arroyo Zapallar, 1961. On twigs. Praderi (MVM).

Rocha: Parque de San Miguel, 1962. On twigs with *Teloschistes flavicans* f. *uruguayensis*. Rosengurt and Del Puerto 9270 (MVFHC).

Tacuarembó: Ruta 44, Arroyo Yaguary, 1961. On trunks. García Zorrón 2873 (MVFHC).

Treinta y Tres: Treinta y Tres, 1966. García Zorrón 3929-3943 (MVFHC); La Charqueada, 1955. With *Candelaria concolor* var. *Vainioana*. Martínez Machiavello (MVM).

Teloschistes exilis (MICHX.) VAIN. var. *dealbatus* (FLOT.) HILLM.

Lavalleja: Zapicán, 1960. On *Salix. San Martin* (MVM).

Rocha: El Chuy, 1954. On shrubs. Wilson Pérez (MVM).

Tacuarembó: Ruta 44, Arroyo Yaguary, 1961. On twigs with *Physcia* sp. Rosengurt (MVFHC nr. 2860). New to Uruguay.

Teloschistes flavicans (Sw.) Norm. f. *uruguayensis* GYELN.

Rocha: Parque de San Miguel, 1962. On twigs with *Teloschistes exilis*. Rosengurt and Del Puerto 9270 (MVFHC).

Usnea Amaliae MOT.

Maldonado: Cerro Pan de Azúcar, 1960. On stones at the summit, 400 m.s.m. San Martín (MVM), Sierra de las Ánimas, 1961. On stones at the summit, 500 m.s.m. San Martín (MVM).

Usnea densirostra TAYL.

Lavalleja: Abra de Zavaleta, 1966. García Zorrón 3922 (MVFHC).

Maldonado: Cerro Pan de Azúcar, 1960. On stones at the summit, 400 m.s.m. San Martín (MVM).

San José: Sierra de Mahoma, 1955. On stones. Martínez Machiavello (MVM).

Usnea subcomosa VAIN.

Rocha: Castillos, 1962. On palm's trunk. San Martín (MVM). New to Uruguay.

SUMMARY

Forty-nine lichens' species collected in several parts of Uruguay are listed.

The following species and varieties are recorded at first time for the country: *Graphis Pavoniana*, *Lobaria quercizans* var. *aequalis*, *Physcia carassensis*, *P. picta*, *P. soresiodosa*, *Ramalina Ecklonii* var. *sublinearis*, *Rusnea* var. *capensis*, *Sticta variabilis*, *Teloschistes exilis* var. *dealbatus*, *Usnea subcomosa*.

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