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CONTRIBUTION TO THE LICHEN FLORA OF URUGUAY.
XXXII. LICHENS FROM MADEIROS RANCH,
LAVALLEJA DEPARTMENT.

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ABSTRACT: *Contribution to the lichen flora of Uruguay. XXXII. Lichens from Madeiros Ranch, Lavalleja Department.*— Fifty seven lichens gathered in Madeiros Ranch, Lavalleja Department are listed. The genera *Amandinea* and *Pleopsidium* are reported for the country for the first time. Four species are added to the known flora of East Uruguay and seventeen others for the Lavalleja Department.

RESUMEN: *Contribución a la flora líquénica del Uruguay. XXXII. Líquenes de la Estancia Madeiros, Departamento de Lavalleja.*— Se enumeran cincuenta y siete líquenes colectados en la Estancia Madeiros, Departamento de Lavalleja. Los géneros *Amandinea* y *Pleopsidium* se citan para el Uruguay por primera vez. Cuatro especies se citan por primera vez para el Este de Uruguay y otras diecisiete para el Departamento de Lavalleja.

Key words: East Uruguay - Lichens - Distribution.

Palabras claves: Este de Uruguay - Líquenes - Distribución.

Introduction

During March 1956 the author accompanied with his father, ANTONIO A. OSORIO, spent two days in the Ranch Madeiros in Lavalleja Department, Uruguay. This cattle Ranch, which the Cebollatí River flows across, is located at the km 209 on Route 8. The collection site is situated 10 km S from Pirarajá Town (33°44'S; 54°45'W) and 75 km NE from Minas City (34°23'S; 55°14'W).

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The largest amount of the taxa below listed were gathered in the broad-leaved evergreen forest developed along the Cebollati River (quoted as marginal forest in the species list). This forest is surrounded by outspread pastures with isolated specimens of *Acacia farnesiana* and scattered rocky outcrops which provided a lot of interesting species.

This paper is the second contribution to the long term planned study of the lichen flora of eastern Uruguay. This is the region of the country situated E from the meridian 55°W (OSORIO 1999:1).

Some samples already published are only included in the list with the bibliographical reference. An asterisk (*) preceding a name indicates a new record for Lavalleja Department and two (**) a new record for East Uruguay. The numbers belong to the author's numbering system and are deposited in his private herbarium.

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List of species

Acarospora lorentzii (MÜLL.ARG.) HUE
OSORIO 1975:1.

Amandinea insperata (NYL.) H. MAYRHOFER & ROPIN
On bark, wooden fence post (3715 pr.p.). This genus is reported for Uruguay for the first time.

**Bacidia alutacea* (KREMPH.) ZAHLBR.
On bark, wooden fence post (3715 pr.p.)

Bacidia millegrana (TAYLOR) ZAHLBR.
OSORIO 1995:442.

**Brigantiaea leucoxantha* (SPRENGEL) SANT. & HAF.
On branches, marginal forest (3719), rev. J. HAFELLNER 1981.

Calopadia perpallida (NYL.) VEZDA
OSORIO 1965:2 (as *Lopadium albosuffusum*).

**Caloplaca americana* (MALME) ZAHLBR.
On rocks (3728).

Caloplaca cinnabarina (ACH.) ZAHLBR.
On rocks (3740).

Caloplaca crocea (KREMPH.) HAF. & POELT
OSORIO 1966:4 (as *C. xanthaspis*).

Candelaria concolor (DICKSON) B. STEIN
On wooden fence post (3706).

Candelaria fibrosa (FR.) MÜLL. ARG.
On bark, marginal forest (3700, 3704, 3714).

Canomaculina pilosa (STIZENB.) ELIX & HALE
On trunks, marginal forest (3676).

Canoparmelia crozalsiana (DE LESD. EX HARM.) ELIX & HALE
OSORIO 1975:5 (as *Parmelia c.*), HALE 1976:27 (as *Pseudoparmelia c.*).

Concamerella pachyderma (HUE) W. CULB. & CH. CULB.
On rocks (3765), rev. W. CULBERSON 1980.

***Diploschistes aeneus* (MÜLL. ARG.) LUMBSCH
On perpendicular rocks (3724).

Dirinaria applanata (FÉE) AWASTHI
On branches, marginal forest (3764).

***Graphina nylanderiana* ZAHLBR.
On branches, marginal forest (3761).

Heterodermia hypochraea (VAINIO) SWINSCOW & KROG
KUROKAWA 1962:95 (as *Anaptychia h.*).

Heterodermia obscurata (NYL.) TREVISAN
On trunk of trees, marginal forest (3661, 3682).

**Hyperphyscia syncolla* (TUCK.) KALB

On tree trunk, marginal forest (3791).

***Ingvariella bispora* (BAGL.) GUDERLEY & LUMBSCH
On rocks (3746).

Lecanora fusca MÜLL. ARG.
On rocks, locally common (3735).

**Lecanora oreinodes* (KOERBER) HERTEL & RAMBOLD
On rocks (3739).

Leptogium denticulatum NYL.
OSORIO 1965:3.

Lobaria erosa (ESCHW.) TREVISAN
On trunk of *Acacia farnesiana* (3669).

Ochrolechia osorioana VERS.
On rocks (3738), det. K. VERSEGHY 1962.

**Parmotrema argentinum* (KREMPH.) HALE
On branches of *Celtis tala*, edge of the marginal forest (3668).

Parmotrema rigidum (LYNGE) HALE
OSORIO 1975:6.

**Parmotrema eciliatum* (NYL.) HALE
On branches, edge of the marginal forest (3713).

**Pertusaria velata* (TURNER) NYL.
On branches of trees, marginal forest (3755).

Phaeographina arechavaletae MÜLL. ARG.
On branches, marginal forest (3760).

**Physcia alba* (FÉE) MÜLL. ARG.
On mossy bark, locally common, marginal forest (3658, 3666, 3678,
3679).

Pleopsidium flavum (BELL.) KOERBER

On rocks, not common (3734). This genus is reported for Uruguay for the first time.

**Pseudocyphellaria aurata* (ACH.) VAINIO
On trunk of *Acacia farnesiana*, scarce (3671).

**Punctelia canaliculata* (LYNGE) KROG
On mossy bark (3670), on *Acacia farnesiana*. edge of the marginal forest, (3672), on branches, marginal forest (3705).

Punctelia microsticta (MÜLL. ARG.) KROG
On branches, marginal forest (3759), on branches marginal forest, leg. A. A. OSORIO s.n. (Herb. OSORIO 6618) det. M. HALE 1974 (as *Parmelia m.*).

Ramalina celastri (SPRENGEL) KROG & SWINSCOW
On shrubs, marginal forest (3697).

Ramalina peruviana ACH.
OSORIO 1965:5.

**Ramalina prolifera* TAYLOR
On shrubs, shore of a small lake (3698), det. A. H. MAGNUSSON 1957.

Ramalina sprengelii KROG & SWINSCOW
On branches of *Celtis tala*, edge of the marginal forest (3664, 3685 pr. p.), on branches of different trees, very common in edge of the marginal forest (3693) det. KASHIWADANI 1990 (KASHIWADANI 1993:27). This collection was already published as *R. usnea* (RUNDEL 1978:151).

Rimelia cetrata (ACH.) HALE & FLETCHER
On trees, marginal forest (3674, 3675, 3680), on *Celtis tala* (3659).

**Rimelia reticulata* (TAYLOR) HALE & FLETCHER
On trunk of trees, marginal forest (3681).

Sticta variabilis (BORY) ACH.
OSORIO 1975:9.

Teloschistes chrysophthalmus (L.) TH. FR.

On wooden fence post (3718), on branches, marginal forest (3711, 3756).

Teloschistes cymbalifer (MEYER) MÜLL. ARG.

On bark, leg. A. A. OSORIO (Herb. OSORIO 3950).

Teloschistes exilis (MICHX.) VAINIO

On wooden fence post (3717), on branches of different trees, marginal forest (3673), leg. A. A. OSORIO (Herb. OSORIO 3953).

***Tephromela atra* (HUDS.) HAF.

On branches of shrubs, marginal forest (3703).

Trypethelium ochroleucum (ESCHW.) NYL.

OSORIO 1966:1.

**Usnea angulata* ACH.

On branches, inner part of the marginal forest (3685.b.) det. J. MOTYKA 1961.

Usnea dimorpha (MÜLL. ARG.) MOTYKA

OSORIO 1975:10.

***Usnea furfurosula* (ZAHLEBR.) MOTYKA

On small branches, marginal forest (3712).

**Usnea neutra* (MOTYKA) RIZZINI

On branches, inner part of the marginal forest (3685 pr.p.).

**Usnea parvula* MOTYKA

On branches, edge of the marginal forest (3694). det. J. MOTYKA 1961.

Usnea transitoria MOTYKA

OSORIO 1993:5.

Xanthoparmelia hypopsila (MÜLL. ARG.) HALE

NASH III, TH. et al. 1995:58.

Xanthoparmelia substenophylloides HALE

On rocks (3731).

- **Xanthoria parietina* (L.) TH FR.
On wooden fence post (3716).

Results

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

- 1) The genera *Amandinea* y *Pleopsidium* are added to the known flora of the country.
- 2) Five species are recorded from East Uruguay for the first time.
- 3) Seventeen taxa are incorporated to the flora of Lavalleja Department.
- 4) Four gatherings: *Calopadia perpallida*, *Usnea dimorpha*, *U. furfurosula* and *U. transitoria* proved to represent the southernmost stations in South America for the time being.

The lichen flora of the marginal forest visited can be considered as rather representative of similar ecosystems from S and E Uruguay. No evidence of anthropopressure was detected during our field trip. Finally, it is remarkable the high percentage of new records for Lavalleja Department: 42% of the species listed.

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