

COMUNICACIONES BOTANICAS DEL MUSEO DE HISTORIA NATURAL DE MONTEVIDEO

Número 98**1992****Volumen V**

CONTRIBUTION TO THE LICHEN FLORA OF BRAZIL. XXIX.

Lichens from Ponta Porá, Mato Grosso do Sul.

HÉCTOR S. OSORIO *

ABSTRACT: "*Contribution to the lichen flora of Brazil. XXIX. Lichens from Ponta Porá, Mato Grosso do Sul*". Forty-two macrolichens collected in the locality of Ponta Porá, Mato Grosso do Sul State, Brazil are listed. Sixteen taxa are added to the known flora of the old Mato Grosso State.

RESUMEN: "*Contribución a la flora líquénica de Brasil. XXIX. Líquenes de Ponta Porá, Mato Grosso do Sul*". Se enumeran cuarenta y dos macrolíquenes colectados en la localidad de Ponta Porá, Estado de Mato Grosso do Sul, Brasil. Dieciseis especies se incorporan a la flora del antiguo Estado de Mato Grosso.

During May and June 1956 the Ing. J. E. MONTES from Misiones, Argentine, gathered lichens in the locality of Ponta Porá (22° 32' S - 55° 37' W). This collection site is located in the Brazilian State of Mato Grosso do Sul on the boundary with Paraguay.

With the exception of two samples all the species here listed are corticolous growing on native trees. Unfortunately the name of the phorophytes is not recorded.

The present knowledge of the lichen flora of the old Mato Grosso State (actually divided in Mato Grosso and Mato Grosso do Sul) is due to the two Regnell Expeditions (MALME 1897, 1904). G. O. MALME collected intensively in the vicinity of Cuyabá in the central part of the State. During both Regnell Expeditions Malme also visited Corumbá on the banks of Paraguay River but very few species are recorded from this locality which is 450 km NW from Ponta Porá.

*) Departamento de Botánica, Museo Nacional de Historia Natural. Casilla de Correo 399. 11.000 Montevideo. URUGUAY.

The results obtained from the study of the Ponta Porá collections let us presume the existence of floristic differences between the areas visited by MALME and the present one and encouraged the author to publish the present list.

Samples belonging to this collection were already published: OSORIO (1973), SÉRUSIAUX (1983) and YOSHIMURA et OSORIO (1975). All the collections here listed are preserved in the private herbarium of the author. The numbers belong to the collector's numbering system.

Thanks are given to the following specialists for their help in many ways: M. E. HALE, R. MOBERG, J. MOTYKA and I. YOSHIMURA.

An asterisk (*) indicates a new state record.

Candelaria concolor (DICKS.) STEIN.

10.161/b.

Coccocarpia erythroxyli (SPRENG.) SWINSC. & KROG

10.147/e., 10.159/a., 10.168/e.

Dirinaria applanata (FÉE) AWASTHI

10.150/a., 10.154/a., 10.159/b., 10.165/d.

Heterodermia albicans (PERS.) SWINSC. & KROG

10.149/b., 10.159/c., 10.160/f., 10.164/c., 10.165/a.,
10.166/e.

(*) *Heterodermia vulgaris* (VAIN.) FOLLM. & REDÓN

10.164/b., 10.169.

Leptogium coralloideum (MEY. & FLOT.) VAIN.

10.171/b.

Leptogium marginellum (SW.) S. F. GRAY

10.147/c., 10.154/d., 10.171/d.

Leptogium phyllocarpum (PERS.) MONT.

10.147/b., 10.171/c.

Leptogium tuckermani DODGE

10.147/d., 10.171/a.

(*) *Lobaria conformis* VAIN.

10.149/a., 10.156, 10.159/h., 10.160/d., 10.165/h.,
10.167/f., 10.168/d. The collection 10.156 grows on
rocks, marginal forest of a brook.

Lobaria erosa (ESCHW. in MART.) TREV.
10.159/d. pr. p.

(*) *Lobaria pseudolivacea* ZAHLBR.
10.153/b., 10.159/d. pr. p.

All the species of the genus *Lobaria* were identified by I. YOSHIMURA.

(*) *Parmelina aurulenta* (TUCK.) HALE
10.166/c., 10.167/d.

Parmelina consors (NYL.) HALE
10.146/l.

(*) *Parmelina muelleri* (VAIN.) HALE
10.160/e., 10.165/k. In a former paper (OSORIO 1973:
449) both collections were misidentified as *Parmelia*
subbalansae.

(*) *Parmotrema austrosinense* (ZAHLBR.) HALE
10.146/b.

Parmotrema dilatatum (VAIN.) HALE
10.166/b., 10.172/b. det. M. E. HALE 1973.

Parmotrema flavomedullosum HALE
10.167/a.

(*) *Parmotrema melanothrix* (MONT.) HALE
10.167/c., 10.172/c.

Parmotrema mesotropum (MÜLL. ARG.) HALE
10.146/e.

Parmotrema subcaperatum (KREMP.) HALE
10.146/m., 10.155/a. det. M. E. HALE 1973.

(*) *Parmotrema subsumptum* (NYL.) HALE
10.146/a.

Parmotrema tinctorum (NYL.) HALE
10.146/c., 10.172/a.

Pertusaria superans MÜLL. ARG.
10.147/f.

Physcia aipolia (HUMB.) FÜRNRÖHR
10.146/g., 10.148/b., 10.165/j., 10.170/d. vid. R. MO-
BERG 1985.

- Physcia crispa* NYL.
10.164/a.
- Pseudocyphellaria clathrata* (DE NOT.) MALME
10.146/f., 10.153/a., 10.155/b., 10.165/b., 10.167/g.,
10.168/c.
- Pseudoparmelia carneopruinata* (Z AHLBR.) HALE
10.166/f.
- Punctelia constantimontium* SÉRUS.
10.160/c.1.
- Punctelia hypoleucites* (NYL.) KROG
10.160/c.2.
- Punctelia rudecta* (ACH.) KROG
10.159/e.
- Pyxine berteroa* (FÉE) IMSH.
10.151/b., 10.161/a., 10.165/c., 10.170/e.
- (*) *Ramalina celastri* (SPRENG.) KROG & SWINSC.
10.146/k., 10.152/c., 10.162/b., 10.154/c.
- (*) *Ramalina complanata* (SW.) ACH.
10.146/n.
- Rimelia cetrata* (ACH.) HALE & FLETCHER
10.146/d. & i., 10.153/c., a. & b., 10.162/a., 10.167/e.
- (*) *Teloschistes flavicans* (SW.) NORM.
10.163/i.
- (*) *Teloschistes exilis* (MICHX.) VAIN.
10.146/o., 10.152/b.
- Usnea meridionalis* Z AHLBR.
10.163/b., d., g.
- (*) *Usnea poliotrix* KREMP.
10.163/h.
- (*) *Usnea subelegans* (VAIN.) MOT.
10.147/a., 10.154/b., 10.163/c., e., 10.170/a.
- (*) *Usnea sulcata* MOT. var. *neutra* MOT.
10.163/a., 10.170/c.
- All the species of the genus *Usnea* were identified by J. MOTYKA.
- (*) *Xanthoparmelia plittii* (GYELN.) HALE
10.158. On rocks, gallery forest of a brook.

CONCLUSIONS

The results of the study of the MALME'S collections are scattered in a large number of works and it is not easy to arrive at an acceptable knowledge of all the taxa collected by him in Mato Grosso State. Therefore the new State records here listed must be considered as tentative.

In spite of the reduced number of species of this collection some differences between Ponta Porá and the areas visited by Malme can be stated as follows:

- a) the genus *Teloschistes* represented by two species in Ponta Porá that MALME (1924:2, 1926:7) quoted not to occur in the places he visited.
- b) A similar situation can be found as regards the genus *Ramalina* represented in Ponta Porá by two species with several collections, while MALME (1924:2) emphasized its absence in Mato Grosso State and in other paper MALME (1935:1) he only reported one saxicolous species.
- c) The Lobariaceae in Central Mato Grosso according with MALME (1935:1) are represented by five species with little significancy in the local flora. It would occur the same number of species in Ponta Porá if we included the *Lobaria cuprea* already published YOSHIMURA & OSORIO (1975:266). Though if we take account of the number of collections here listed, *Lobaria conformis* and *Pseudocyphellaria clathrata* seem to possess an important role in the flora of this locality.
- d) Sixteen species are added to the known flora of the old Mato Grosso State. They represent the 38 % of the taxa here listed and give an idea of the paucity of the present knowledge of the Mato Grosso lichen flora.

LITERATURE CITED

- MALME, G. O. — 1897. Die Flechten der ersten Regnell'schen Expedition. I. Einleitung. Die Gattung *Pyxine* (Fr.) NYL.- Bihang till Kunglige Svenska Vetenskaps Akademien Handlingar, 23 (III): 13: 1-52. Stockholm.
- MALME, G. O. — 1904. Reseberättelse afgifven af Regnellske stipendiaten doktor G. O. Malme för åren 1901-1903.- Kunglige Svenska Vetenskaps Akademien. Arsbok, 1904: 105-155. Stockholm.

- MALME, G. O. — 1924. Die Flechten der ersten Regnellschen Expedition. Die Gattungen *Bombyliospora*, *Megalospora*, *Catillaria* und *Rhizocarpon*.- Arkiv för Botanik, 18 (12): 1-17. Stockholm.
- MALME, G. O. — 1926. Lichenes blasteniospori Herbarii Regnelliani.- Arkiv för Botanik, 20A (9): 1-51. Stockholm.
- MALME, G. O. — 1935. Die Ramalinen der ersten Regnellschen Expedition.- Arkiv för Botanik, 26A (12): 1-9, 2 plat. Stockholm.
- MALME, G. O. — 1935. Die Stictazeen der ersten Regnellschen Expedition.- Arkiv för Botanik, 26A (14): 1-18, 3 plat. Stockholm.
- OSORIO, H. S. — 1973. Contribution to the lichen flora of Brazil. I. New or additional records.- Revista Faculdade Ciencias (Lisboa), 2a. Ser. — C — Ciencias Naturais, 17 (2): 447-450.
- SERUSIAUX, E. — 1983. New data on the lichen genus *Punctelia* (Parmeliaceae).- Nordic Journal of Botany, 3: 517-520, 2 figs. Copenhagen.
- YOSHIMURA, I. & H. S. OSORIO. — 1975. Notes on *Lobaria cuprea* with purple pigment.- Journal Hattori Botanical Laboratory, 39: 263-268, 4 figs. Nichinan.