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## CONTRIBUTION TO THE LICHEN FLORA OF ARGENTINA XIII.

### LICHENS FROM MISIONES PROVINCE.

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In the present paper the author concludes the study of the lichens gathered by Ing. J. E. Montes in eight localities in Misiones Province, Argentina during the year 1956. All collections quoted in the former part of this paper are preserved in the author's private herbarium. They have been collected on tree trunks and branches. Only in case of identification of substratum, be it at level of species, genus or family, is especially mentioned in the text.

A bulky part of this collections has been already reported in different publications (HALE 1965, 1975a, 1975b, 1976a, 1976b, 1976c, OSORIO 1969a, 1969b, 1970a, 1970b). Nevertheless a reduced number of specimens is yet undetermined. They are members of genera critical or lacking a further monographic revision.

The delimitation from eastern and western phytogeographic subtropical provinces are in accordance with CABRERA (1951).

Misiones Province, in spite of its luxurious flora and its many touristical attractions, for the past few years was almost unknown from a lichenological point of view. In the Catalogue of the lichen flora of Argentina (GRASSI 1950a) there are only

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three lichens species reported for Misiones Province: *Chiodecton sanguineum*, *Ramalina lanceolata* var. *prolifera* and *Usnea angulata* subsp. *alata*. From that precise date until now, with the exclusion of those publications based on the study of the J. E. Montes collections, only SANTESSON's work (1952) affords a valuable addition to the lichen flora of this province. With the aim to offer our colleagues a bird's eye view of the current knowledge of the flora of this province we have included in the second part of this paper a list of all the species reported for Misiones Province in the bibliography at our disposal. Genera and species have been ordered alphabetically and quoted just the same as in the original publication. This is the reason why some species are quoted under different genera ej.: *Chiodecton* and *Herpothallon*. A similar situation is found with genera of the family Parmeliaceae. The consulted papers are referred to with Roman numerals and the respective page with Arabic numerals.

The number of species reported in both parts of the present paper reaches the amount of 110.

Only two Argentina provinces have global studies in the regard to their lichen flora: Tucumán (GRASSI 1950b, 1953) and Corrientes (FERRARO 1978). Unfortunately it is impossible to make comparison between these floristic researchs and the present one. This is due to the fact that works based on Tucumán flora deal only with foliose and fruticose lichens; in the other hand in the Corrientes flora the family Parmeliaceae is not included. In the present paper this family reaches the amount of 27 species. In spite of this fact we have found 33 common species for both Corrientes and Misiones Provinces. This number will be undoubtedly increased with the up-coming issue of the family Parmeliaceae of Corrientes.

Of course, the present list represents only a small part of the rich flora of Misiones. In the present paper the crustose lichens are very poorly represented; the Graphidaceae and the pyrenolichens are practically absent in contrast with their high representativity in the floras from the adjacent countries: Brazil and Paraguay. We expect that the results obtained by us will stimulate the collecting and subsequent studies of this group in Misiones Province.

*Anthracothecium papilliferum* (NYL.) MÜLL. ARG.

LORETO: on *Strychnos brasiliensis*, 10042; on bark of tree, 10046. New to Argentina.

*Bacidia millegrana* (TAYL.) ZAHLBR.

LORETO: on bark of Leguminosae, 2/d, 13/a; on trunk of Borriginaceae, 26.

- Buellia modesta* (KREMP.) MÜLL. ARG.  
PASTOREO CHICO: 10078/gb (pro parte).
- Coccocarpia palmicola* (SPRENG.) ARVIDSS. & D. GALL.  
PASTOREO CHICO: on *Astronium balansae*, 10080/c, conf. L. Arvidsson; on trees, 10087/a, conf. L. Arvidsson. New to Argentina.
- Coenogonium interplexum* NYL.  
LORETO: on bark of Leguminosae, 2/a.
- Coenogonium linkii* EHRENB.  
PASTOREO CHICO: 10075/c.
- Collema glaucophthamum* NYL. var. *implicatum* (NYL.) DEGEL.  
FRACRAN: 10105/b.  
GISELA: on trunk of Ulmaceae, 37/e.  
LORETO: on trunk of Sapotaceae, 21/a.  
PASTOREO GRANDE: 10050/c.
- Dirinaria applanata* (FÉE) AWAST.  
GOBERNADOR ROCA: 10099/b (Herb. Osorio 5296).  
LORETO: 10043/b (Herb. Osorio 5416).  
PASTOREO CHICO: on *Tecoma ochracea*, 10058/a (Herb. Osorio 5342); on trees, 10078/c, 10084/c, 10088 (Herb. Osorio 5326, 5341, 5347). In a former paper (OSORIO 1969a) all the above mentioned collections were published under the name *Physcia picta*.
- Glyphis cicatricosa* (ACH.) VAIN. f. *confluens* (ZENK.) ZAHLBR.  
COLONIA YABEBIRY: 10068/h (pro parte).
- Graphina acharii* (FÉE) MÜLL. ARG.  
GOBERNADOR ROCA: 10099/c.
- Graphis scripta* (L.) ACH.  
LORETO: on bark of Leguminosae, 13/b.
- Haematomma puniceum* (ACH.) MASS.  
GOBERNADOR ROCA: 10100/b.  
LORETO: on *Melia azedarach*, 10034/b.  
PASTOREO CHICO: 10078/f.
- Heterodermia albicans* (PERS.) SWINSC. & KROG.  
COLONIA YABEBIRY: 10062/e, 10067/b, 10068/d.  
PASTOREO CHICO: 10076/a, 10089/a.
- H. casarettiana* (MASS.) TREVIS.  
GOBERNADOR ROCA: 10100/e. New to Argentina.

- Hypotrachyna intercalanda* (VAIN.) HALE.  
 COLONIA YABEBIRY: on bark of *Astronium balansae* and *Piptadenia macrocarpa*, 10073/m; on trees, 10062/c.
- H. pluriformis* (NYL.) HALE.  
 COLONIA YABEBIRY: on bark of *Astronium balansae* and *Piptadenia macrocarpa*, 10073/a; on trees, 10062/c.
- H. pustulifera* (HALE) HALE.  
 PASTOREO CHICO: det. M. Hale 1977, 10087/c. According with M. Hale (pers. comm.) this is the first report of this species for South America.
- Lecanora atra* (HUDS.) ACH.  
 PASTOREO CHICO: 10078/ga.
- Lecidea compaginata* (MÜLL. ARG.) ZAHLBR.  
 COLONIA YABEBIRY: on *Ruprechtia laxiflora*, 10071/d.  
 LORETO: 10036/a. New to Argentina.
- L. parvifolia* PERS.  
 COLONIA YABEBIRY: on trunk of *Ruprechtia laxiflora*, 10071/a.  
 GOBERNADOR ROCA: 10099/d.  
 LORETO: on trunk of Sapotaceae, 24/b; on trunk of *Astronium balansae*, 10036/b; on trunk of *Dianopteris sorbifolia*, 10039/e.  
 PASTOREO CHICO: 10074/b, 10078/h, 10095/a.
- L. russula* ACH.  
 COLONIA YABEBIRY: 10068/h (pro parte).  
 LORETO: on bark of *Melia azedarach*, 10034/c.
- Leptogium austroamericanum* (MALME) DODGE.  
 PASTOREO CHICO: on bark of *Astronium balansae*, 10080/b.  
 PASTOREO GRANDE: 10050/a.
- L. azureum* (Sw.) MONT.  
 GISELA: on trunk of Ulmaceae, 37/a (pro parte).
- L. coralloideum* VAIN.  
 PASTOREO GRANDE: 10050/d.
- L. phyllocarpum* (PERS.) NYL.  
 COLONIA YABEBIRY: on trunk of *Luehea divaricata*, 10066/c.  
 FRACRAN: 10105/e.  
 GISELA: on trunk of Ulmaceae, 37/b.  
 LORETO: on bark of Borriginaceae, 3/a; on trunk of Sapotaceae, 21/b, 24/c.  
 PASTOREO GRANDE: on trees, 10050/ea & /eb; on *Piptadenia macrocarpa*, 10054.

*L. tuckermanni* DODGE.

COLONIA YABEBIRY: on trunk of *Luehea divaricata*, 10066/b & d.

FRACRAN: 10105/d, conf. C. Dodge 1960.

GISELA: on trunk of Ulmaceae, 37/a (pro parte), conf. C. Dodge 1960.

IGUAZU: 10112/a.

LORETO: on bark of Borraginaceae, 3/b; on trunk of Sapotaceae, 24/a; on trees, 10045/a, conf. C. Dodge 1960.

PASTOREO GRANDE: 10050/b.

*Lobaria conformis* VAIN.

GISELA: on trunk of Sapindaceae, 30/b, det. I. Yoshimura 1972.

LORETO: on bark of Euphorbiaceae, 1/a, det. I. Yoshimura 1972.

PASTOREO GRANDE: on trees, 10056; on trunk of *Piptadenia macrocarpa*, 10057/d. Recently reported for Argentina from the northern part of Corrientes Province (FERRARO 1978).

*L. crenulata* (HOOK. in KUNTH) TREVIS.

IGUAZU: 10109/h, det. I. Yoshimura 1972. New to Argentina. In the eastern subtropical province the genus *Lobaria* is represented by four species. Its absence in the western subtropical province is a remarkable fact.

*Myriotrema wightii* (T. TAYL.) HALE.

IGUAZU: 10109/j.

PASTOREO CHICO: 10092/a, det. M. Hale 1971 (as *Leptotrema w.*)

PASTOREO GRANDE: on *Tecoma ochracea*, 10058. New to Argentina.

*Ochrolechia subpallescens* VERS.

PASTOREO CHICO: 10078/gb (pro parte).

*Parmelia borrerioides* NYL.

COLONIA YABEBIRY: 10063/c.

GOBERNADOR ROCA: 10097.

PASTOREO CHICO: 10090/d, 10094/d, det. M. Hale 1977.

PASTOREO GRANDE: 10051/d.

*P. hypoleucites* NYL.

COLONIA YABEBIRY: 10062/a.

PASTOREO CHICO: 10090/f, det. M. Hale 1977.

*Parmelia microsticta* MÜLL. ARG.

PASTOREO CHICO: 10090/e.

*P. m.* var. *riograndensis* (LYNGE) LYNGE.

PASTOREO CHICO: 10090/g.

*Farmelia rudecta* ACH.

COLONIA YABEBIRY: 10062/b.

*Farmelina consors* (NYL.) HALE.COLONIA YABEBIRY: on trees, 10065/b, /c & /e; on trunk of *Astronium balansae* and *Piptadenia macrocarpa*, 10073/f.

GISELA: on trunk of Meliaceae, 36/b.

IGUAZU: 10109/b.

LORETO: 10047/e.

*P. dissecta* (NYL.) HALE.COLONIA YABEBIRY: on trunk of *Astronium balansae* and *Piptadenia macrocarpa*, 10072/c; on trees, 10062/f.

GOBERNADOR ROCA: 10097/a, 10101/b, 10103/a. New to Argentina.

*P. lindmanii* (LYNGE) HALE.COLONIA YABEBIRY: on trunk of *Astronium balansae* and *Piptadenia macrocarpa*, 10073/i; on trees, 10065/h.*P. mülleri* (VAIN.) HALE.

GOBERNADOR ROCA: 10098/e.

IGUAZU: 10109/f.

PASTOREO CHICO: 10090/a. In Argentina this species is known from a single collection from Tucumán (HALE 1976c).

*Parmotrema argentinum* (KREMP.) HALE.COLONIA YABEBIRY: on trunk of *Astronium balansae* and *Piptadenia macrocarpa*, 10073/q.

LORETO: 12.

*P. cetratum* (ACH.) HALE.COLONIA YABEBIRY: 10065/g; on trunk of *Astronium balansae* and *Piptadenia macrocarpa*, 10073/b, det. M. Hale 1973.

GOBERNADOR ROCA: 10098/e.

IGUAZU: 10109/c &amp; /k.

LORETO: on bark of *Astronium balansae*, 10044/b.

PASTOREO CHICO: 10081/c, 10084/b.

PASTOREO GRANDE: 10049/c.

*P. delicatulum* (VAIN.) HALE.

GOBERNADOR ROCA: 10098/a.

IGUAZU: 10109/l.

*P. leucosemothetum* (HUE) HALE.COLONIA YABEBIRY: on trunk of *Astronium balansae* and *Piptadenia macrocarpa*, 10073/n & /u; on trees, 10063/b.

GISELA: on trunk of Meliaceae, 36/e.

GOBERNADOR ROCA: 10101/a.

IGUAZU: 10109/g. New to Argentina.

*P. mesotropum* (MÜLL. ARG.) HALE.

COLONIA YABEBIRY: 10065/d.

*P. rampoddense* (NYL.) HALE.

GISELA: on trunk of Meliaceae, 36/d, /f & /h. New to Argentina.

*P. sancti-angelii* (LYNGE) HALE.

COLONIA YABEBIRY: 10063/d.

PASTOREO CHICO: 10081/b.

*P. subcaperatum* (KREMP.) HALE.

Cryptochlorophaeic acid strain:

COLONIA YABEBIRY: on trees, 10063/f; on bark of *Astronium balansae* and *Piptadenia macrocarpa*, 10073/g, /h, /l, /o, /r & /s.

GISELA: on trunk of Meliaceae, 36/g.

GOBERNADOR ROCA: 10101/c.

LORETO: 10047/a & /b.

Salacinic acid strain:

COLONIA YABEBIRY: on trees, 10065/f; on trunk of *Astronium balansae* and *Piptadenia macrocarpa*, 10073/j & /k. GOBERNADOR ROCA: 10098/d, 10101/d & /e. HALE (1965) reported from Argentina only collections belonging to the cryptochlorophaeic acid strain. However both chemical strains, at least in the Misiones Province, seem to have a similar distribution.

*P. subrugatum* (KREMP.) HALE.

IGUAZU: 10113/c.

*P. tinctorum* (NYL.) HALE.

COLONIA YABEBIRY: on trees, 10063/g, 10065/a; on trunk of *Astronium balansae* and *Piptadenia macrocarpa*, 10073/d.

GISELA: on trunk of Meliaceae, 36/a.

GOBERNADOR ROCA: 10101/b, 10102.

IGUAZU: 10109/i.

PASTOREO GRANDE: on trees, 10049/f, det. H. des Abbayes 1964; on *Piptadenia macrocarpa*, 10057/f. This one and other two species of *Parmotrema*: *cetratum* and *subcaperatum* are, at least in the studied collection, the most common foliaceous lichens which occur in this Province.

*Pertusaria flavens* NYL.

COLONIA YABEBIRY: 10067/h. New to Argentina.

*P. pulchella* MALME.

COLONIA YABEBIRY: 10067/e, 10068/e.

*P. superans* MÜLL. ARG.

COLONIA YABEBIRY: on *Ruprechtia laxiflora*, 10071/b.

IGUAZU: 10155/a.

LORETO: on *Dianopteris sorbifolia*, 10039/b; on trees, 10043/d.

PASTOREO CHICO: on *Helietta cuspidata*, 10079; on trees, 10083, 10091.

PASTOREO GRANDE: 10061/c. New to Argentina.

*Phlyctella brasiliensis* (NYL.) ZAHLBR.

LORETO: on bark of *Dianopteris sorbifolia*, 10039/c. New to Argentina.

*Physcia aipolia* (HUMB.) FÜRNRÖHR.

COLONIA YABEBIRY: 10067/d, 10068/a.

GOBERNADOR ROCA: 10098/a, 10100/b, 10103/d.

IGUAZU: 10110/b.

LORETO: on trunk of Sapindaceae, 28/b.

PASTOREO CHICO: 10076/b, 10078/i, 10089/b. In some specimens the maculation of the upper surface is not clear being therefore difficult to separate this species from *P. alba*.

*P. alba* (FÉE) MÜLL. ARG. var. *obsessa* (MONT.) LYNGE.

PASTOREO CHICO: 10090/c.

*P. crispa* NYL.

GOBERNADOR ROCA: 10100/c (herb. Osorio 5302). In a former paper (OSORIO 1969a) this collection was published under the name *Physcia albicans* (PERS.) THOMS.

*P. tribacoides* NYL.

LORETO: on bark of *Dianopteris sorbifolia*, 10039/d.

PASTOREO GRANDE: 10051/c.

*Porina subpungens* MALME.

GOBERNADOR ROCA: 10100/d.

PASTOREO CHICO: 10092/b. New to Argentina.

*Pseudocyphellaria clathrata* (DE NOT.) MALME.

IGUAZU: 10109/e.

LORETO: on bark of Euphorbiaceae, 1/d. This species is the only *Pseudocyphellaria* known in the eastern subtropical province where it seems not to be uncommon. It is an interesting fact that in the western subtropical province its sorediate counterpart: *Ps. aurata* is the only *Pseudocyphellaria* reported from this province (GRASSI 1950b).



- Pseudoparmelia carneopruinata* (Zahlbr.) Hale.  
COLONIA YABEBIRY: 10062/d. New to Argentina.
- Ps. scrobicularis* (Kremp.) Hale.  
LORETO: 10043/a.
- Pyxine berteriana* (Fée) Imsh.  
COLONIA YABEBIRY: 10067/f, 10068/j.  
IGUAZU: 10100/a.  
GOBERNADOR ROCA: 10103/e.  
LORETO: 10143/c.  
PASTOREO GRANDE: on bark of *Lonchocarpus mühlenbergianus*, 10052/a & /b; on trees, 10061/b.
- P. b.* var. *subobscurascens* (Malme) Imsh.  
COLONIA YABEBIRY: on trunk of *Ruprechtia laxiflora*, 10071/c.  
FRACRAN: 10106/c.
- Ramalina complanata* (Sw.) Ach.  
LORETO: 10036/e.
- R. celastri* (Spreng.) Krog & Swinsc.  
GISELA: on trunk of Moraceae, 29/b.  
LORETO: on trunk of Rhamnaceae, 22.  
PASTOREO CHICO: 10086.
- Sticta weigeli* (Isert ex Ach.) Vain.  
LORETO: on bark of Euphorbiaceae, 1/c. This is the only *Sticta* collected in both subtropical provinces.
- Teloschistes exilis* (Michx.) Vain.  
GISELA: on trunk of Anacardiaceae, 35/b.  
IGUAZU: 10108/a, 10113/d.  
LORETO: on *Astronium balansae*, 10044/a.  
PASTOREO CHICO: on *Astronium balansae*, 10080/a.  
PASTOREO GRANDE: on *Chrysophyllum grisebachii*, 10055/a.
- T. flavicans* (Sw.) Norm.  
GISELA: on trunk of Anacardiaceae, 35/a.  
PASTOREO GRANDE: on *Chrysophyllum grisebachii*, 10055/b.
- Usnea alata* Mot.  
PASTOREO CHICO: 10082/a.
- U. grandisca* Mot.  
PASTOREO CHICO: 10095/b.

*U. poliotrix* KREMP.

LORETO: 10044/d.

PASTOREO CHICO: 10077/b, /d, /e, /f &amp; /i.

*U. rubicunda* STIRT.

PASTOREO CHICO: 10077/j. New to Argentina.

*U. steineri* ZAHLBR.

LORETO: 10044/c.

PASTOREO CHICO: 10095/a.

*U. subcomosa* VAIN.

PASTOREO CHICO: 10077/h. New to Argentina.

*U. subelegans* (VAIN.) MOT.

LORETO: 10044/a &amp; /b.

PASTOREO CHICO: 10077/c, 10082/b, 10095/c.

PASTOREO GRANDE: 10048.

LICHEN SPECIES REPORTED IN THE LITERATURE FROM  
MISIONES PROVINCE.

- Anaptychia dendritica* (PERS.) VAIN. var *propagulifera* VAIN.  
XVII: 392.
- A. diademata* (TAYL.) KUROK. f. *brachyloba* (MÜLL. ARG.)  
KUROK.  
XVII: 392.
- A. domingensis* (ACH.) MASS.  
XIII: 597, XVI: 409, XVII: 393.
- Buellia lauricassiae* (FÉE) MÜLL. ARG.  
XVII: 393.
- Bulbothrix coronata* (MÜLL. ARG.) HALE.  
XI: 23.
- Caloplaca granularis* (MÜLL. ARG.) C. SAMBO.  
XVII: 393.
- Coccocarpia parmelioides* (HOOK.) TREVIS.  
XV: 1.
- Catillaria bouteillei* (DESM.) ZAHLBR.  
XIX: 434.
- Chiodecton sanguineum* (SW.) VAIN.  
XIV: 72.
- Dimerella epiphylla* (MÜLL. ARG.) MALME.  
XIX: 399.
- D. lutea* (DICKS.) TREVIS.  
XV: 1.
- D. roumegeeriana* (MÜLL. ARG.) MALME.  
XV: 2.
- Glyphis cicatricosa* (ACH.) VAIN. f. *confluens* (ZENK.) ZAHLBR.  
XV: 2.
- Graphina hologlauca* (NYL.) ZAHLBR.  
XVI: 409.

- Gyalectidium filicinum* MÜLL. ARG.  
XIX: 358.
- G. rotuliforme* MÜLL. ARG.  
XIX: 360.
- Gyrostomum scyphuliferum* (ACH.) NYL.  
XVI: 409.
- Herpothallon sanguineum* (SW.) TOBLER.  
XV: 2.
- Hypotrachyna intercalanda* (VAIN.) HALE.  
VIII: 42.
- H. pluriformis* (NYL.) HALE.  
VIII: 55.
- Leptogium austroamericanum* (MALME) DODGE.  
XVI: 409.
- L. coralloideum* VAIN.  
XVI: 409.
- L. marginellum* (SW.) S. GRAY.  
XV: 2.
- L. simplicius* VAIN. var. *pichneoides* DODGE.  
XV: 2.
- Leptotrema heterosporum* (KNIGHT) ZAHLBR.  
XVI: 410.
- Lobaria cuprea* (MÜLL. ARG.) ZAHLBR.  
XV: 2, XXI: 267.
- L. tenuis* VAIN.  
XVIII: 1.
- Lopadium puiggarii* (MÜLL. ARG.) ZAHLBR.  
XIX: 537.
- Normandina pulchella* (BORR.) NYL.  
XV: 2.
- Parmelia abstrusa* VAIN.  
XV: 2.

- Gyalectidium filicinum* MÜLL. ARG.  
XIX: 358.
- G. rotuliforme* MÜLL. ARG.  
XIX: 360.
- Gyrostomum scyphuliferum* (ACH.) NYL.  
XVI: 409.
- Herpothallon sanguineum* (SW.) TOBLER.  
XV: 2.
- Hypotrachyna intercalanda* (VAIN.) HALE.  
VIII: 42.
- H. pluriformis* (NYL.) HALE.  
VIII: 55.
- Leptogium austroamericanum* (MALME) DODGE.  
XVI: 409.
- L. coralloideum* VAIN.  
XVI: 409.
- L. marginellum* (SW.) S. GRAY.  
XV: 2.
- L. simplicius* VAIN. var. *pichneoides* DODGE.  
XV: 2.
- Leptotrema heterosporum* (KNIGHT) ZAHLBR.  
XVI: 410.
- Lobaria cuprea* (MÜLL. ARG.) ZAHLBR.  
XV: 2, XXI: 267.
- L. tenuis* VAIN.  
XVIII: 1.
- Lopadium puiggarii* (MÜLL. ARG.) ZAHLBR.  
XIX: 537.
- Normandina pulchella* (BORR.) NYL.  
XV: 2.
- Parmelia abstrusa* VAIN.  
XV: 2.

- P. consors* NYL.  
XVII: 393.
- P. crozalsiana* B. DE LESD.  
XVI: 410.
- P. delicatula* VAIN.  
XVII: 393.
- P. intercalanda* VAIN.  
XVII: 393.
- P. lindmanii* LYNGE.  
XVI: 410.
- P. mesotropa* MÜLL. ARG.  
XVI: 410, XVII: 393.
- P. microsticta* MÜLL. ARG.  
XVII: 393.
- P. sancti-angelii* LYNGE.  
VII: 306.
- P. scrobicularis* KREMP.  
XV: 2.
- P. subcoronata* MÜLL. ARG.  
XVIII: 2.
- P. tinctorum* NYL.  
VII: 266.
- Parmelina consors* (NYL.) HALE.  
XII: 22.
- Pertusaria pulchella* MALME.  
XV: 3.
- Phaeographina caesiopruinosa* (FÉE) MÜLL. ARG. var. *abbreviata*  
REDGR.  
XVI: 410.
- Phlyctis pulveracea* M. LAMB.  
XV: 3.
- Physcia albicans* (PERS.) THOMS.  
XV: 3.

*P. picta* (SW.) NYL.  
XV: 3.

*Porina fulvella* MÜLL. ARG.  
XIX: 248.

*Pseudocyphellaria clathrata* (DE NOT.) MALME.  
XV: 3.

*Pseudoparmelia scrobicularis* (KREMP.) HALE,  
X: 48.

*Pyxine berteriana* (FÉE) IMSH. var. *subobscurascens* (MALME)  
IMSH.  
XVI: 410.

*Ramalina complanata* (SW.) ACH.  
XV: 4.

*R. ecklonii* (SPRENG.) MEY. & FLOT.  
XV: 4, XVII: 394.

*R. e. f. sublinearis* NYL.  
XVII: 394.

*R. lanceolata* NYL. var. *prolifera* (TAYL.) ZAHLBR.  
XX: 228.

*R. prolifera* TAYL.  
XVII: 394.

*Relicina abstrusa* (VAIN.) HALE.  
IX: 17.

*Sticta weigelii* (ISERT EX ACH.) VAIN.  
XV: 4.

*Strigula elegans* (FÉE) MÜLL. ARG.  
XVIII: 2, XIX: 168.

*St. nemathora* MONT. var. *hypothelia* (NYL.) R. SANT.  
XIX: 156.

*Tricharia vulgaris* (MÜLL. ARG.) R. SANT.  
XIX: 390.

*Usnea angulata* ACH. subsp. *alata* MOT. ex GYELN.  
VI: 86.

- U. dichroa* MOT. var. *spinulosa* MOT.  
XVI: 410.
- U. grandisca* MOT.  
XVI: 410.
- U. krempelhuberi* MOT.  
XVII: 394.
- U. lunaria* MOT.  
XVI: 410.
- U. meridionalis* ZAHLBR.  
XVII: 394.
- U. mutabilis* STIRT.  
XVI: 410.
- U. poliotrix* KREMP.  
XVII: 394.
- U. steineri* ZAHLBR.  
XVII: 394.
- U. sulcata* MOT. var. *neutra* MOT.  
XVII: 394.



## SUMMARY

In the former part of the present paper the author concludes the study of the lichens collected by Ing. J. Montes in Misiones Province, Argentina. *Hypotrachyna pustulifera* is recorded for South America for the first time. The following species are added to the known flora of Argentina: *Anthracothecium papilliferum*, *Coccocarpia palmicola*, *Heterodermia casarettiana*, *Lecidea compaginata*, *Lobaria crenulata*, *Myriotrema wightii*, *Parmelina dissecta*, *Parmotrema leucosemohetum*, *P. rampoddense*, *Pertusaria flavens*, *P. superans*, *Phlyctella brasiliensis*, *Porina subpungens*, *Pseudoparmelia carneopruinata*, *Usnea rubicunda*, *U. subcomosa*.

In the latter part of this paper all species reported in literature for Misiones Province are enumerated. As the result of this research the totality of the species quoted for Misiones amounts to 110.

## SUMARIO

En la primera parte de este trabajo se finaliza el estudio de la colección de líquenes que el Ing. J. Montes efectuara en la provincia de Misiones, Argentina. *Hypotrachyna pustulifera* se cita por primera vez para América del Sur. Las siguientes especies se incorporan a la flora líquénica argentina: *Anthracothecium papilliferum*, *Coccocarpia palmicola*, *Heterodermia casarettiana*, *Lecidea compaginata*, *Lobaria crenulata*, *Myriotrema wightii*, *Parmelina dissecta*, *Parmotrema leucosemohetum*, *P. rampoddense*, *Pertusaria flavens*, *P. superans*, *Phlyctella brasiliensis*, *Porina subpungens*, *Pseudoparmelia carneopruinata*, *Usnea rubicunda*, *U. subcomosa*.

En la segunda parte se citan todas las especies existentes en la literatura de la provincia de Misiones. Como resultado final el número de especies citadas para Misiones se eleva a 110.

## LITERATURE CITED.

- I) CABRERA, A. L. 1951. Territorios Fitogeográficos de la República Argentina. Bol. Soc. Argentina Bot. 4: 21-65.
- II) FERRARO, L. I. 1978. Contribución a la flora líquenológica de Corrientes (Rep. Argentina). FACENA (Corrientes) 2: 167-244.
- III) GRASSI, M. 1950a. Contribución al Catálogo de líquenes argentinos, I. Lilloa 24: 5-296.
- IV) ————. 1950b. Los líquenes foliosos y fruticulosos de Tucumán. Lilloa 24: 297-395.
- V) ————. 1953. Teloschistaceae de Tucumán. Lilloa 26: 439-452.
- VI) GYELNIK, V. 1938. Lichenes argentinenses a professore C. C. Hosseus collecti. Cont. I. Fedde Repert. Spec. Nov. 43: 83-87.
- VII) HALE, M. E. 1965. A monograph of *Parmelia* subgenus *Amphigymnia*. Contr. U. S. Natl. Herbarium 36: 193-358.
- VIII) ————. 1975a. A revision of the lichen genus *Hypotrachyna* (Parmeliaceae) in tropical America. Smithsonian Contr. Bot. 25: 1-73.
- IX) ————. 1975b. A monograph of the lichen genus *Relicina* (Parmeliaceae). Smithsonian Contr. Bot. 26: 1-32.
- X) ————. 1976a. A monograph of the lichen genus *Pseudoparmelia* Lynge (Parmeliaceae). Smithsonian Contr. Bot. 31: 1-62.
- XI) ————. 1976b. A monograph of the lichen genus *Bulbotrix* Hale (Parmeliaceae). Smithsonian Contr. Bot. 32: 1-29.
- XII) ————. 1976c. A monograph of the lichen genus *Parmelina* Hale (Parmeliaceae). Smithsonian Contr. Bot. 33: 1-60.
- XIII) KUROKAWA, S. 1973. Supplementary notes on the genus *Anaptychia*. Journ. Hattori Bot. Lab. 37: 563-607.
- XIV) MAGNUSSON, A. H. 1947. Some lichens from Argentina. Medd. Göteborgs Bot. Trädg. 17: 59-75.
- XV) OSORIO, H. S. 1969a. Contribution to the lichen flora of Argentina. II. Lichens from the Province of Misiones. Comun. Bot. Mus. Hist. Nat. Montevideo 4 (48): 1-5.
- XVI) ————. 1969b. Contribution to the lichen flora of Argentina. III. Additions. The Bryologist 72: 409-410.

- XVII) ————. 1970a. Contribution to the lichen flora of Argentina. IV. New or additional records. *The Bryologist* 73: 392-394.
- XVIII) ————. 1970b. Contribution to the lichen flora of Argentina. V. Some new records. *Comun. Bot. Mus. Hist. Nat. Montevideo* 4 (54): 1-2.
- XIX) SANTESSON, R. 1952. Follicolous lichens I. A revision of the taxonomy of the obligately foliicolous lichenized fungi. *Symb. Bot. Upsaliensis* 12 (1): 1-590.
- XX) SZATALA, O. 1937. *Ramalinae* nonnullae. *Fedde Repert. Spec. Nov.* 42: 225-228.
- XXI) YOSHIMURA, I. & OSORIO, H. S. 1975. Notes on *Lobaria cuprea* with purple pigment. *Journ. Hattori Bot. Lab.* 39: 263-268.