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CONTRIBUTION TO THE LICHEN FLORA OF BRAZIL VII. LICHENS FROM MONTENEGRO AND TRIUNFO, RIO GRANDE DO SUL STATE

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In the present paper the authors make known the results of the study of several lichens gathered in the Municipalities of Montenegro and Triunfo in the State of Rio Grande do Sul. The collection sites were mainly the marginal forests of a small water-stream called "Arroio Bom Jardim" tributary of the Caí River, situated on the boundary of both Municipalities, about 50 Km NW from Porto Alegre City. The samples were collected for the most part on native trees, especially *Parapiptadenia rigida* and *Mimosa bimucronata*; however species growing on cultivated trees e.g. *Melia* and *Eucalyptus* were studied too and the same for those on man-made substrates (wooden fence post, etc.).

In spite of the proximity to Porto Alegre both Municipalities are unknown from a lichenological point of view. In the literature at our disposal we could find only two species recorded for both Municipalities. It is a fact that this zone is to undergo profound alterations in its environmental conditions in a very near future. So that we consider a matter of interest to publish the species identified up to present which we expect to increase in future.

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As a whole we identified twenty-four genera including fifty-two species, one of them not previously recorded for Brazil. Some other species were formerly known in one or two localities in Rio Grande do Sul so that they increase their State known ranges. All the specimens here reported are preserved in the Herbario Prof. Dr. Alarich R. H. Schultz, Museu de Ciencias Naturais, Fundacao Zoobotanica do Rio Grande do Sul, Porto Alegre (HAS) with the exception of those collected by the senior author which preserved in his private herbarium.

Anthracothecium goniostomun MÜLL. ARG.

TRIUNFO: On *Casearia silvestris*, Aguiar 379; on *Mimosa bimacronata*, Homrich s.n. (HAS 11.224.a.).

Caloplaca crocea (KREMP) HAF. & POELT.

MONTENEGRO: on *Parapiptadenia rigida*, Osorio 7767.

C. erythrantha (TUCK.) ZAHLBR.

TRIUNFO: on branches, Homrich s.n. (HAS 11.243 pr.p.).

C. granularis (MÜLL. ARG.) C. SAMBO.

MONTENEGRO: on *Parapiptadenia rigida*, Osorio 7757; on wooden fence post, Osorio 7760. Formerly known in Rio Grande do Sul from two localities situated in the vicinity of Encruzilhada do Sul (OSORIO AND HOMRICH 1978).

C. holocarpa (HOFFM.) WADE.

MONTENEGRO: on wood, Osorio 7759.

Chiodecton quassiaecolum (Fée) MÜLL. ARG. var. *plurisepta* RÄS.

MONTENEGRO: on *Parapiptadenia rigida*, Aguiar 449.a. pr.p. Formerly known from two localities in Uruguay (RÄSÄNEN 1942, OSORIO 1980). New to the known flora of Brazil.

Ch. sanguineum (SW.) VAIN.

MONTENEGRO: on *Parapiptadenia rigida*, Osorio 7792.

Coccocarpia palmicola (SPRENG.) ARVIDSS. & D. GALL.

MONTENEGRO: on *Eucalyptus* trunk (at soil level), Osorio 7785.

Dimerella pyrophthalma (MONT.) VEZDA.

MONTENEGRO: on *Mimosa bimucronata*, Aguiar 388.

TRIUNFO: on *Sebastiania serrata*, Aguiar 385.

Dirinaria applanata (FÉE) AWAS.

TRIUNFO: on branches, Aguiar et al. s.n. (HAS 11.284.a);
on *Ocotea pulchella*, Homrich s.n. (HAS 11.235.a.).

Glyphis cicatricosa (ACH.) VAIN. f. *confluens* (ZENK.) ZAHLBR.

MONTENEGRO: on *Melia azedarach*, Osorio 7769.

Graphina dealbata (NYL). MÜLL. ARG.

MONTENEGRO: on *Parapiptadenia rigida*, Osorio 7758, 7766.

Graphis lineola ACH.

MONTENEGRO: on *Chorisia speciosa* (trunk's thorns), Osorio 7772; on *Melia azedarach*, Osorio 7771.a.

TRIUNFO: on *Mimosa bimucronata*, Homrich s.n. (HAS 11.224.b.); on *Parapiptadenia rigida*, Aguiar 377.

G. rimulosa (MONT.) TREVIS.

MONTENEGRO: on *Melia azedarach*, Osorio 7771.b.

TRIUNFO: on *Mimosa bimucronata*, Osorio 7742.a.

Heterodermia albicans (PERS.) SWINSC. & KROG.

MONTENEGRO: on *Parapiptadenia rigida*, Aguiar 287, 447.b.,
Osorio 7788.

H. comosa (ESCHW.) FOLLM. & REDÓN.

TRIUNFO: on *Mimosa bimucronata*, Homrich s.n. (HAS 11.245), Osorio 7749.

H. diademata (TAYL.) AWAS.

MONTENEGRO: on *Parapiptadenia rigida*, Aguiar 288 pr.p.,
289 pr.p., 442.c., 447.a., Osorio 7777, 7781; substratum
unknown, Aguiar s.n. (HAS 11.296).

TRIUNFO: on *Parapiptadenia rigida*, Nilson s.n. (HAS 11.304.a.).

H. hypochraea (VAIN.) SWINSC. & KROG.

MONTENEGRO: on *Parapiptadenia rigida*, Osorio 7784. This is the second record of this species recently incorporated to the brazilian flora (OSORIO, AGUIAR and HOMRICH 1980).

H. obscurata (NYL.) TREVIS.

MONTENEGRO: on *Inga uruguensis*, Aguiar 376 pr.p.; on *Parapiptadenia rigida*, Aguiar 290 pr.p.

H. vulgaris (VAIN) FOLLM. & REDÓN.

MONTENEGRO: on *Parapiptadenia rigida*, Aguiar 451c.

Lecidea parvifolia PERS.

TRIUNFO: on *Ficus organensis*, Aguiar 381 pr.p.

L. russula ACH.

MONTENEGRO: on wooden fence post, Osorio 7761.

Leptogium cyanescens (ACH.) KÖRB.

MONTENEGRO: on *Inga uruguensis*, Aguiar 380.

TRIUNFO: on *Vitex megapotamica*, Homrich s.n. (HAS 11.237).

Lobaria conformis VAIN.

MONTENEGRO: on *Parapiptadenia rigida*, on trunk at soil level, only specimen seen, Osorio 7762. This is the second record of this species for Rio Grande do Sul; formerly known from the vicinity of Lavras do Sul (OSORIO and HOMRICH 1978).

Parmelia borrierioides NYL.

MONTENEGRO: on *Parapiptadenia rigida*, Aguiar 286 pr.p., 288 pr.p., 289 pr.p., 450.a.; on *Inga uruguensis*, Aguiar 376 pr.p.

P. canaliculata LYNGE.

MONTENEGRO: on *Machaerium* sp., Homrich s.n. (11.241); on *Mimosa bimucronata*, Osorio 7756, 7763; on wooden fence post, Osorio 7752. In Rio Grande do Sul this species was known only from the type locality: Cachoeira do Sul (LYNGE 1914).

P. microsticta MÜLL. ARG.

TRIUNFO: on *Mimosa bimucronata*, Homrich, s.n. (HAS 11.308), on bark, Homrich s.n. (HAS 11.483).

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

TRIUNFO: on *Sebastiania klotschiana*, Homrich s.n. (HAS 11.239 pr.p.).

Parmelina consors (NYL.) HALE.

MONTENEGRO: on *Parapiptadenia rigida*, Aguiar 449.c.

P. dissecta (NYL.) HALE.

MONTENEGRO: on *Inga uruguensis*, Aguiar 376 pr.p. Not previously recorded from Rio Grande do Sul State.

P. lindmanii (LYNGE) HALE.

MONTENEGRO: on *Melia azedarach*, Osorio 7774.

P. muelleri (VAIN.) HALE.

MONTENEGRO: on *Parapiptadenia rigida*, Aguiar 289 pr.p., 448a. Not previously recorded from Rio Grande do Sul State.

P. pilosa (STIZB.) HALE.

MONTENEGRO: on *Parapiptadenia rigida*, Aguiar 286 pr.p., 293 pr.p., 449.b., 450.b., Osorio 7789.

Parmotrema austrosinense (ZAHLEBR.) HALE.

TRIUNFO: on branches, Homrich s.n. (HAS 11243 pr.p.). Recently incorporated to the Brazilian flora through collections belonging to the area of Great Porto Alegre (OSORIO, AGUIAR and HOMRICH 1980).

P. cetratum (ACH.) HALE.

MONTENEGRO: on *Parapiptadenia rigida*, Homrich s.n. (HAS 11.484).

TRIUNFO: on branches of tree, Osorio 7747.

P. eciliatum (NYL.) HALE.

TRIUNFO: on *Mimosa bimucronata*, Homrich s.n. (HAS 11.473.a.).

P. praesorediosum (NYL.) HALE.

MONTENEGRO: on *Parapiptadenia rigida*, Aguiar 284

TRIUNFO: on *Mimosa bimucronata*, Nilson s.n. (HAS 11.299 pr.p.). Formerly known from the locality of Pareci Novo, Montenegro (HALE 1965).

P. sancti-angelii (LYNGE) HALE.

MONTENEGRO: on *Inga uruguensis*, Homrich s.n. (HAS 11.310).

TRIUNFO: on *Mimosa bimucronata*, Homrich s.n. (HAS 11.309, 11.473.b.). Although this species is widely distributed in tropical and subtropical regions (HALE 1965) in Rio Grande do Sul it was known only from the type locality: Santo Angelo, near Cachoeira (LYNGE 1914).

P. subcaperatum (KREMP.) HALE.

MONTENEGRO: on *Parapiptadenia rigida*, Aguiar 442.b. Formerly known from the locality of Pareci Novo, Montenegro (HALE 1965).

P. tinctorum (NYL.) HALE.

MONTENEGRO: on *Parapiptadenia rigida*, Aguiar 285 pr.p., 442.a., 451.a., Osorio 7780, 7782; on *Melia azedarach*, Osorio 7773; on *Eucalyptus* trunk at soil level, Osorio 7783.

TRIUNFO: on *Ficus organensis*, Aguiar 381 pr.p., on *Mimosa bimucronata*, Nilson s.n. (HAS 11.298); on *Inga uruguensis*, Nilson s.n. (HAS 11.304.b.); on branches, Aguiar et al. s.n. (HAS 11.284.b.). Recently recorded from a locality in the northern part of the State (OSORIO, AGUIAR and HOMRICH 1980). This species was the most common of the foliaceous lichens gathered in the studied area.

Pertusaria pulchella MALME.

MONTENEGRO: on *Mimosa bimucronata*, Osorio 7741; on *Melia azedarach*, Osorio 7770.

Phaeographina lecanographa (NYL.) MÜLL. ARG.

TRIUNFO: on *Mimosa bimucronata*, Osorio 7742.b.

Physcia aipolia (EHRH.) HAMPE.

MONTENEGRO: on *Parapiptadenia rigida*, Osorio 7776, 7787. Not previously recorded from Rio Grande do Sul State.

P. tribacoides NYL.

TRIUNFO: on *Ficus organensis*, Aguiar 381 pr.p.

Pseudoparmelia carneopruinata (ZAHLEBR.) HALE.

MONTENEGRO: on *Parapiptadenia rigida*, Aguiar 292 pr.p., 293 pr.p., 450.c., Osorio 7775. Not previously recorded from Rio Grande do Sul State.

Pyxine subcinerea STIRT.

TRIUNFO: on *Ficus organensis*, Aguiar 381. pr.p.

Ramalina celastri (SPRENG.) KROG. & SWINSC.

MONTENEGRO: on *Parapiptadenia rigida*, Aguiar 443.a., Osorio 7764; on wooden fence post, Osorio 7778.

TRIUNFO: on *Mimosa bimucronata*, Homrich s.n. (HAS 11.216.b.); on bark, Aguiar 384 pr.p.

R. linearis (SW.) ACH.

MONTENEGRO: on wooden fence post, Osorio 7779.

TRIUNFO: on bark, Aguiar 384 pr.p.

R. peruviana ACH.

MONTENEGRO: on *Parapiptadenia rigida*, Aguiar 443.c., 448.b., 451.b., Osorio 7765; on wooden fence post, Osorio 7755.

TRIUNFO: on *Parapiptadenia rigida*, Osorio 7753; on *Mimosa bimucronata*, Osorio 7754.

R. usnea (L.) HOWE.

TRIUNFO: on wooden fence post, Osorio 7756.

Strigula elegans (FÉE) MÜLL. ARG.

TRIUNFO: on *Casearia* sp., Osorio 7743.

S. nemathora MONT.

TRIUNFO: on *Daphnopsis racemosa*, Osorio 7745.

Teloschistes exilis (MICHX.) VAIN.

TRIUNFO: on *Mimosa bimucronata*, Nilson s.n. (HAS 11.299 pr.p.), Osorio 7750; on *Sebastiania klotschiana*, Homrich s.n. (HAS 11.239 pr.p.); on branches Homrich s.n. (HAS 11.243 pr.p.); on shrubs, Osorio 7751.

SUMMARY

Fifty-two lichens species collected in the Municipalities of Montenegro and Triunfo, Rio Grande do Sul State are enumerated. *Chiodecton quassiaecolum* var. *plurisepta* is added to the known flora of Brazil. *Parmelina dissecta*, *P. muelleri*, *Physcia aipolia* and *Pseudoparmelia carneopruinata* are recorded for the State for the first time. To another group of species the here reported findings represent a noteworthy extension of their distribution within the State.

SUMARIO

Se enumeran 52 líquenes colectados en los Municipios de Montenegro y Triunfo del estado de Rio Grande do Sul. *Chiodecton quassiaecolum* var. *plurisepta* se cita por primera vez para Brasil. *Parmelina dissecta*, *P. muelleri*, *Physcia aipolia* y *Pseudoparmelia carneopruinata* se citan por primera vez para el estado de Rio Grande do Sul. Para otro grupo de especies los hallazgos actuales representan extensiones significativas en su área de distribución dentro del Estado.

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