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CONTRIBUTION TO THE LICHEN FLORA OF BRAZIL XVII.

Lichens from Sao Francisco de Paula,
Rio Grande do Sul State.

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ABSTRACT: "Contribution to the lichen flora of Brazil. XVII. Lichens from Sao Francisco de Paula, Rio Grande do Sul State". Eighteen lichen species collected in the Municipality of Sao Francisco de Paula, RS, Brasil are listed. *Parmotrema subsumptum* is added to the known flora of the Rio Grande do Sul Highlands.

RESUMEN: "Contribución a la flora líquénica de Brasil. XVII. Líquenes de Sao Francisco de Paula, Estado de Río Grande del Sur". Se enumeran dieciocho especies de líquenes colectadas en la Municipalidad de Sao Francisco de Paula, RS, Brasil. *Parmotrema subsumptum* se incorpora a la flora del Planalto de Río Grande del Sur.

With the present paper the authors continue with the long term planned study of the lichen flora of the Highlands from Rio Grande do Sul State, Brazil (Planalto Riograndense).

The specimens here listed were collected in the Municipality of Sao Francisco de Paula with an altitude nearly 900 m and covered with *Araucaria angustifolia* forests. The three collections sites are as follows: "Colinas de Sao Francisco" and "Veraneio Hampel" are located 10 and 5 km SW from Sao Francisco de Paula City along the road Tacuara-Sao Francisco de Paula. In both places the collections were made in native forests.

The remaining collection site is the "Floresta Nacional" in the middle of the Sao Francisco de Paula-Tainhas road. Here we gathered mostly in the scattered remnants of the native fo-

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rest surrounded by a large *Finus* plantation belonging to the Instituto Brasileiro de Desenvolvimento Florestal. The banks of a small brook fronting the entrance to the "Floresta Nacional" provided some interesting records too.

Some lichens were collected on trees known by the people as "canela" due to the peculiar odour of the bark. Several species of the genera *Ocotea* and *Nectandra* are grouped under this name. We were unable to obtain more accurate identification during the field work.

The three localities mentioned were shortly visited during car stops which explain the low number of samples collected. In spite of the smallness of this collection, the lack of information of the lichen flora of this Municipality encouraged the authors to publish these results. In the literature at our disposal only one species could be found quoted for this Municipality: *Usnea krempehuberi* (MOTYKA 1936/38 : 601).

The large amount of the species that we listed here are already reported for the Highlands in the former papers published as part of our study (FLEIG 1984, OSORIO 1985, OSORIO & ARBELO MARTINS 1980, OSORIO & FLEIG 1986). Therefore, only the new records for this region are pointed out.

Two identical series were made with the lichens gathered and deposited in the Herbarium of the Departamento de Botânica, Universidade Federal do Rio Grande do Sul, Porto Alegre, RS, Brasil and in the private herbarium of the senior author.

We would like to thank Dr. O. VITIKAINEN for confirming the determination of *Peltigera austroamericana*.

Catinaria versicolor (FÉE) SIPMAN.

FLORESTA NACIONAL: on trunk of a tree, inner part of the forest, SF/19.

Chiodecton sanguineum (SW.) VAIN.

COLINAS DE SAO FRANCISCO: on trunk of a tree, SF/3.

Cladia aggregata (SW.) NYL.

FLORESTA NACIONAL: between rocks, banks of a brook, SF/34.

Coccocarpia erythroxyli (SPRENG.) KROG & SWINSC.

FLORESTA NACIONAL: on trunk of *Eucalyptus*, SF/27.

Cora pavonia (SW.) FR.

FLORESTA NACIONAL: on soil, along road, SF/24; on branches of a tree, 2.5 m from the ground, with Bryophytes, *Rhipsalis* and *Tillandsia usneoides*, SF/32.

Cryptothelium octosporum (VAIN.) ZAHLBR.

FLORESTA NACIONAL: on trunk of "canela" tree, inner part of the forest, SF/18.

Heterodermia leucomela (L.) POELT subsp. *boryi* (FÉE) SWINSC. & KROG.

COLINAS DE SAO FRANCISCO: on trunk of *Araucaria angustifolia*, SF/1.

VERANEIO HAMPEL: on trunk of a tree, SF/15.

Heterodermia obscurata (NYL.) VAIN.

COLINAS DE SAO FRANCISCO: on trunk of "canela" tree, SF/9.

VERANEIO HAMPEL: on trunk of a tree, SF/14.

Lobaria erosa (ESCHW.) NYL.

FLORESTA NACIONAL: on *Podocarpus* in a *Eucalyptus* plantation, SF/29.

Lobaria pseudoglaberrima ZAHLBR.

FLORESTA NACIONAL: on trunk of a tree, inner part of the forest, SF/20.

Parmotrema cetratum (ACH.) HALE.

COLINAS DE SAO FRANCISCO: on trunk of "canela" tree, SF/7.

Parmotrema subsumptum (NYL.) HALE.

COLINAS DE SAO FRANCISCO: on trunk of "canela" tree, SF/5.
Recorded for the Highlands for the first time.

Peltigera austroamericana ZAHLBR.

FLORESTA NACIONAL: on soil, banks of brook, SF/33, conf. O. VITIKAINEN.

Pseudocyphellaria aurata (ACH.) VAIN.

COLINAS DE SAO FRANCISCO: on trunk of a tree, inner part of the forest, SF/11.

FLORESTA NACIONAL: on trunk of a tree, SF/26.

Ramalina usnea (L.) HOWE.

COLINAS DE SAO FRANCISCO: on *Araucaria angustifolia*, SF/2.

Sticta fuliginosa (DICKS.) ARN.

COLINAS DE SAO FRANCISCO: on trunk of a tree, inner part of the forest, SF/13.

Sticta weigeli (ACH.) VAIN.

COLINAS DE SAO FRANCISCO: on trunk of a tree, inner part of the forest, SF/12.

Teloschistes flavicans (SW.) NORM.

COLINAS DE SAO FRANCISCO: on trunk of "canela" tree, SF/8.

FLORESTA NACIONAL: on *Araucaria angustifolia*, locally common, SF/25.

VERANEIO HAMPEL: on *Araucaria angustifolia*, SF/16.

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