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## CONTRIBUTION TO THE LICHEN FLORA OF BRAZIL. XXXIV. LICHENS FROM LAGUNA, SANTA CATARINA STATE.

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**ABSTRACT:** *Contribution to the lichen flora of Brazil. XXXIV. Lichens from Laguna, Santa Catarina State.*— Twelve lichens collected in the locality of Laguna, Santa Catarina State, Brazil are listed. Three lichen species are added to the Santa Catarina State flora and other six are reported for the maritime lichen flora of Brazil for the first time.

**RESUMEN:** *Contribución a la flora líquénica del Brasil. XXXIV. Líquenes de Laguna, Estado de Santa Catarina.*— Se enumeran doce líquenes colectados en la localidad de Laguna, Estado de Santa Catarina, Brasil. Tres especies se citan por primera vez para la flora del Estado de Santa Catarina y otras seis se incorporan a la flora de líquenes marítimos del Brasil.

**Key words:** Brazil - Lichens - Taxonomy - Distribution.

**Palabras clave:** Brasil - Líquenes - Taxonomía - Distribución.

### Introduction

During March 1997 the author gathered lichens in the vicinity of Laguna City, Santa Catarina State, Brazil (28°29'S - 48°47'W). Notwithstanding the small number of taxa collected, the scarcity of recent contributions to the knowledge of this group in Santa Catarina State and some interesting findings among these gatherings encouraged the author to publish the present list.

The lichens below listed were gathered in the following stations:

PG: Praia do Gi, a beach along the Atlantic coast 1 km N from Laguna City.

The specimens were collected on rocks and shrubs growing on the beach.

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LTH: The Laguna Tourist Hotel is located fronting Praia do Gi beach. Easily detachable taxa were collected on rocks and shrubs in the garden of the Hotel.

HILL1: A small hill located 100 m S from the Laguna Tourist Hotel. On the top of this hill an observatory has been built and therefore it is travelled by numerous tourists. The slopes are covered with shrubs and one *Casuarina* is the only tree noted.

HILL2: It is located 300 m S from the Hotel. The top and slopes are covered with a *Pinus* and *Eucalyptus* plantation and with patches of native forest. The lichen coverage on both types of tree vegetation is very poor.

The numbers between parenthesis belong to the author's numbering system and are housed in his private herbarium.

**Acknowledgements:** Thanks are given to Dr. T. AHTI, Helsinki, for the determination of *Cladonia*.

## List of species

### *Cladonia ahtii* STENROOS

HILL2: on *Eucalyptus robusta*, *Eucalyptus* and *Pinus* plantation, E slope of the hill, confirm. T. AHTI 1997 (9340). STENROOS (1989:253) did not report this species from Santa Catarina State.

### *Cladonia ceratophylla* (SWARTZ) SPRENGEL

HILL1: on soil, top of the hill (9330).

### *Cladonia pityrophylla* NYL.

HILL1: on soil, top of the hill, det. T. AHTI 1997 (9329, 9331). Only known in the State by two old collections ( T. AHTI, pers. comm.).

### *Cryptothecia rubrocincta* (EHRENB.) THOR

HILL2: on dead trunk of *Eucalyptus*, *Eucalyptus* and *Pinus* plantation, E slope (9341).

### *Leptogium isidiosellum* (RIDDLE) SIERK

LTH: on rocks at roadside in the garden (9328). First record for Santa Catarina State.

### *Parmotrema tinctorum* (NYL.) HALE

HILL1: on rocks, top of the hill, very common locally, (9337), on trunk of *Casuarina*, top of the hill, only specimen seen (9333).

### *Ramalina complanata* (SWARTZ) ACIL.

PG: on trunk of *Yucca gloriosa* growing on beach (9321). Only two collections without precise locality are known previously from Santa Catarina State (KASHIWADANI & KALB 1993:16).

*Ramalina gracilis* (PERS.) NYL.

PG: on trunk of *Yucca gloriosa* growing on beach (9324).

LTH: on trunk of *Yucca gloriosa*, garden of the Hotel (9327). Already reported from Laguna by KASHIWADANI & KALB (1993:19).

*Ramalina usnea* (L.) HOWE

LTH: on rocks, garden of the Hotel, very few specimens seen (9325). Neither KASHIWADANI & KALB (1993) nor MALME (1935) reported this taxon from Santa Catarina State.

*Rimelia cetrata* (ACH.) HALE & FLETCHER

HILL1: on rocks, top of the hill, very common locally (9338, 9339).

*Teloschistes flavicans* (SWARTZ) NORMAN

PG: on rocks on beach (9322), on trunk of *Yucca gloriosa* growing on beach (9323).

HILL 1: on branches of shrubs, top of the hill (9334), on rocks, top of the hill (9335, 9336).

*Usnea densirostra* TAYLOR

HILL1: on flat stones, E slope (ocean-faced) near the top of the hill, very common locally (9332).

LTH: on rocks, garden of the Hotel (9326). MOTYKA (1936/38:318) quoted two collections dated in the past century. The rocks on the ocean-faced slope of the hill are covered with thousands of individuals of this taxon. In the remaining slopes of the hill this *Usnea* is represented by a few and scattered specimens.

## Results

All the collection's sites are exposed to a variable maritime influence:

- a) Praia do Gi (PG): is a typical higrohaline zone.
- b) The garden of the Laguna Tourist Hotel (LTH) belongs to the lower aerohaline zone.
- c) Localities HILL1 and HILL2 can be included in the upper aerohaline zone.

At the present state of our knowledge the followings species are added to the known maritime flora from Brazil for the first time: *Cladonia ahtii*, *Cl. ceratophylla*, *Cl. pityrophylla*, *Cryptothecia rubrocincta*, *Leptogium isidiosellum* and *Usnea densirostra*.

Furthermore the following taxa are reported for the State flora for the first time: *Cladonia ahtii*, *Leptogium isidiosellum* and *Ramalina usnea*.

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