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# ADDITIONAL NOTES ON THE MELAMPSORACEAE OF SAGHALIEN

BY

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In January, 1928, the writer published a short paper, entitled "A provisional list of the Melampsoraceae collected in Saghalien" in the Tokyo Botanical Magazine, and in his list, the following 28 species were enumerated. They are *Melampsora* 5 sps., *Chnoopsora* 1 sp., *Melampsorella* 1 sp., *Melampsoridium* 3 sps., *Pucciniastrum* 6 sps., *Thekopsora* 5 sps., *Calyptospora* 1 sp., *Hyalopsora* 1 sp., *Chrysomyxa* 4 sps. and *Cronartium* 1 sp.

In the summer of 1928, the writer made a second visit to Southern Saghalien to collect specimens for the investigation of the Melampsoraceae, and spent about a month along its eastern coast. During this excursion, a large number of specimens were collected, and the following notes are supplementary to the former list.

## I. Additional Species

**1. *Melampsora Hypericorum* SCHRÖT.** in Brand- u. Rostpilze Schles. p. 26, 1869.

**Hab.** On leaves of *Hypericum erectum* THUNB. (*Otogirisô*). Sakaehama (July, 28, 1928, NAOHIDE HIRATSUKA, S. SHIMADA, M. TERUI & K. FUJITA).

**2. *Uredinopsis Pteridis* DIET. et HOLW.** in Ber. Deutsch. bot. Ges. XIII, p. 331, tab. XXVI, fig. 10, 11, 1895.

**Hab.** On leaves of *Pteridium aquilinum* KÜHN (*Warabi*). Manui (Aug.

20, 1928, NAOHIDE HIRATSUKA).

**3. Uredinopsis filicina** P. MAGN. in Atti Congr. Bot. Internat. d. Genova (1892), p. 167, tab. IX, fig. 1-13, 1893.

**Hab.** On leaves of *Dryopteris Phlegopteris* C. CHR. (*Miyama-warabi*). Mt. Shiritori (Aug. 5, 1928, NAOHIDE HIRATSUKA, S. SHIMADA, M. TERUI & K. FUJITA); Mt. Kashipo (Aug. 23, 1928, NAOHIDE HIRATSUKA).

**4. Uredinopsis Struthiopteridis** STÖRM. in Bot. Notizer (1895), p. 81, 1895.

**Hab.** On leaves of *Matteuccia Struthiopteris* (L.) TODARO (*Kusa-sotetsu*). Nairo (Sept. 6, 1906, T. MIYAKE).

**5. Pucciniastrum arcticum** TRANZSCH. in Script. Bot. Hort. Univ. Petro-pol. IV, p. 302, 1895.

**Hab.** On leaves of *Rubus arcticus* L. (*Chishima-ichigo*). Shisuka (Aug. 13, 1928, NAOHIDE HIRATSUKA).

**Remarks:** This species is new to the mycological flora of Japan. Our specimen has only its uredostage, and its character is as follows:-

Uredosori hypophyllous, scattered or gregarious, minute, round, 0.1 to 0.25 mm. in diameter, yellow or pale yellow in colour; pseudoperidia hemispherical, firm, covered by the epidermis; peridial cells polygonal, hyaline; ostiolar cells large, rather thick, sparsely echinulate at the apex; uredospores ellipsoidal or oblong,  $17-26 \times 12-16 \mu$ ; epispore finely echinulate, colourless.

**6. Pucciniastrum Hydrangeae-petiole-ridis** HIRATS. in Jour. Facul. Agric. Hokkaido Imp. Univ. XXI, p. 27, 1927.

**Hab.** On leaves of *Hydrangea petiolaris* SIEB. et ZUCC. (*Tsuru-ajisai*). Shiritori (Aug. 10, 1928, NAOHIDE HIRATSUKA).

**7. Chrysomyxa Pirolae** ROSTR. in Bot. Centralbl. V, p. 127, 1881.

**Hab.** On leaves of *Pirola minor* L. (*Yezo-ichiyakusô*). Mt. Tosso (July 30, 1928, NAOHIDE HIRATSUKA, S. SHIMADA, M. TERUI & K. FUJITA).

## II. Additional Hosts

**1. Calyptospora Goeppertiana** KÜHN in Hedw. VIII, p. 81, 1869. (HIRATSUKA in Bot. Mag. Tokyo, XLII, p. 31, 1928).

**Hab.** On leaves of *Abies sachalinensis* FR. SCHM. (*Todomatsu*). Sakaehama (July 28, 1928, NAOHIDE HIRATSUKA, S. SHIMADA, M. TERUI & K. FUJITA).

**2. *Thekopsora guttata* (SCHRÖT.) SYD., Monogr. Ured. III, p. 467, 1915.**

**Hab.** On leaves of *Galium trifloriforme* KOM. (*Kuruma-mugura*). Mt. Shiritori (Aug. 5, 1928, NAOHIDE HIRATSUKA, S. SHIMADA, M. TERUI & K. FUJITA).

**3. *Chrysomyxa Ledi* DE BARY in Bot. Zeitg. XXXVII, p. 809, tab. X, fig. 7, 8, 1879. (HIRATSUKA in Bot. Mag. Tokyo, XLII, p. 32, 1928).**

**Hab.** On leaves of *Picea jezoensis* CARR. (*Yezo-matsu*). Manui (Aug. 20, 1928, NAOHIDE HIRATSUKA).

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## 摘 要

一九二八年一月、予ハ樺太産メラムブソラ科ノ二十八種ヲ東京植物學雜誌上ニ發表セルガ、本報文ハ其ノ補遺ナリ。

本報文ニ於テハ樺太産トシテ新ニ次ギノ七種類、即チ、*Melampsora Hypericorum* SCHRÖT., *Uredinopsis Pteridis* DIET. et HOLW., *U. filicina* P. MAGN., *U. Struthiopteridis* STÖRM., *Pucciniastrum arcticum* TRANZSCH., *P. Hydrangeae-petiolariidis* HIRATS. 及ビ *Chrysomyxa Pirolae* ROSTR. 及ビ併セテ樺太産既知種ノ新奇主植物三種ヲ發表セリ。此等ノ内 *Pucciniastrum arcticum* TRANZSCH. ハ本邦領土内ニ於テハ未ダ産スル事ヲ知ラレザリシ種類ナリ。

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