

Yasuji MORIMOTO*: Notes on rust flora in Japan (6)**

森本泰二*: 日本産锈菌雜記 (6)

35. *Puccinia caricis-lanceolatae* Y. Morimoto sp. nov.

Soris uredosporiferis amphigenis, plerumque epiphyllis, minutis 0.2-0.5 mm longis, epidermide diu tectis, flavo-brunneis; uredosporis ellipsoideis vel obovatis, echinulatis, flavo-brunneis, 17-24 (-25) \times 14-17 (-19) μ ; poris germinationis 2, 3 vel 4 aequatorialibus instructis; episporio 1.5-1.7 μ crasso. Soris teleutosporiferis amphigenis, sparsis, linearibus, 0.5-1 mm longis, mox nudis, compactis, pulvinatis, atris; teleutosporis clavatis, apice rotundatis, truncatis vel obtusis, incrassatis (3.5-8.5 μ), medio constrictis, basi attenuatis, levibus, brunneis, 36-51 (-60) \times 8.5-13 (-17) μ ; pedicello persistenti, flavo-brunneo, asque 23-34 μ longo; mesosporis immixtis.

Hab. II, III. On *Carex lanceolata* Boott (Hikage-suge). Hisuwa, Yoshida-cho, Pref. Hiroshima (May 28, 1960, Type! in Herb. Agr. Yamaguchi Univ.; Jun. 7, 1961); Akadao, Yoshida-cho, Pref. Hiroshima (Jun. 4, 1960); Mitadani, Koda-cho Pref. Hiroshima (Nov. 24, 1960; Apr. 23, 1961); Takanosuyama, Shiraki-cho, Pref. Hiroshima (Jun. 5, 1960); Hakone, Pref. Kanagawa (July 27, 1960).

This species resembles *Pucc. caricis-brunneae* having small teleutospores, but the pores of uredospore are 2, 3 or 4 equatorial.

36. *Puccinia caricis-heterolepis* Y. Morimoto sp. nov.

Soris uredosporiferis hypophyllis, sparsis vel aggregatis, minutis, rotundatis vel ellipsoideis, 0.1-0.5 mm longis, mox nudis, subpulverulentis, brunneis; uredosporis globosis vel subglobosis, echinulatis, 17-20 \times 11-18 μ ; episporio 2-3 μ crasso; poris germinationis 2, 3, 4 aequatorialibus vel 3 sparsis instructis. Teleutosporiferis epiphyllis vel hypophyllis, rotundatis vel ellipsoideis, 0.5-1 mm longis, mox nudis, compactis, pulvinatis, atro-brunneis vel atris; teleutosporis ellipsoideis vel oblongis, apice rotundatis, truncatis vel obtusis, incrassatis (5-12 μ), medio vix constrictis, (31-)40-69(-77) \times 10-20.5 μ , basi leniter attenuatis, levibus, castaneo-brunneis; pedicello per-

* [redacted] Yoshida-cho, Takata-gun, Pref. Hiroshima. 広島県高田郡吉田町 [redacted]

** Continued from Journ. Jap. Bot. 44(4): 112 (1969).

sistenti, brunneo, 30-50 μ longo; mesosporis immixtis.

Hab. II, III. On *Carex heterolepis* Bunge (Yamaaze-suge). Kamiirie, Yoshida-cho, Pref. Hiroshima (Aug. 15, 1959, Type! in Herb. Fac. Yamaguchi Univ.); Mikoto-mura, Hiba-gun, Pref. Hiroshima (Oct. 4, 1959).

37. ***Puccinia caricis-kouriyamensis*** Y. Morimoto sp. nov.

Soris hypophyllis, sparsis, linearibus (1-)3-10 mm longis, nudis, fragmentis epidermidis circumdatis, pulvinatis, compactis, flavo-brunneis; amphispomis globosis, subglobosis vel obovatis, fere levibus, flavo-brunneis, 18-27 \times 14.5-25(-27) μ ; episporio 2-3 μ crasso; poris germinationis 3 aequatorialibus instructis. Soris teleutosporiferis conformibus, compactis, pulvinatis, castaneo-brunneis; teleutosporis ellipsoideis vel oblongis, apice rotundatis vel conico-attenuatis, incrassatis (5-9 μ), medio vix constrictis, basi attenuatis vel rotundatis, levibus, castaneo-brunneis, 34-60(-68) \times 14-20(-23) μ ; poris germinationis cellulae superioris ad apicem, inferioris sub septo posito; pedicello persistenti, hyalino, usque 100 μ longo; mesosporis immixtis.

Hab. II, III. On *Carex brunnea* Thunb. (Kogome-suge). Koriyama, Yoshida-cho, Pref. Hiroshima (Jan. 8, 1960, Type! in Herb. Fac. Yamaguchi Univ.; Mar. 6, 1960); Itsukushima, Pref. Hiroshima (Apr. 23, 1960).

38. ***Puccinia breviculmis*** Dietel in Ann. Myc. 5: 72, 1907.

Amphispores, 20-34 \times 19-24 μ , pores 2 or 3 equatorial, wall brownish, 2-2.5 μ thickness. Teleuto. 26-42 \times 12-17(-29) μ , ap. 3.5-7 μ , ped. up to 51 μ .

Hab. II, III. On *Carex leucochlora* Bunge (Aosuge). Yokoyama, Iwakuni City, Pref. Yamaguchi (Apr. 22, 1948; Apr. 20, 1961).

39. ***Puccinia moiwensis*** Miura ex Sydow in Ann. Myc. 11: 105, 1913.

Hab. II, III. On *Carex sachalinensis* Fr. Schum. var. *alterniflora* Ohwi (Oito-suge). Itsukushima, Pref. Hiroshima (Apr. 23, 1960).

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35. ヒカゲスゲを寄主とし小さな冬胞子を持っている。
 36. ヤマアゼスゲを寄主とし、夏胞子は小さく発芽孔を赤道部に 2, 3, 4 個持つものと 3 個散在 (少量) したものと 2 種類の夏胞子を有す。
 37. コゴメスゲを寄主とし、両性胞子は球形で 3 個の発芽孔を赤道部に有する。冬胞子錐は 1 cm 或はそれ以上の褐色の細長い線状である。
 38. アオスゲを寄主とし、夏胞子に発芽孔 2, 3 個赤道部にある両性胞子を記録しておく。
 39. オオイトスゲを寄主とする菌で柄は apex と同一色で黄褐色である。

ヤマアゼスゲ, コゴメスゲを検定して戴いた初島住彦博士, オオイトスゲを検定して戴いた大井次郎博士に, またアオスゲ上の菌に対し有益なる suggestion を戴いた故 Ivar Jørgstad 博士に対し深甚なる感謝の意を表す。