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Uredinales of Yoron Island*

By

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The Ryukyu Islands include the following five islands groups of small islands: Satsunan, Tokara, Amami, Okinawa and Sakishima Islands. Yoron Island belongs to the Amami Islands.

Yoron Island is located at approximately 29.5 km. south of Okierabu Island and 22 km. from Okinawa Island. The island is 28.02 km² in area, and rather flat. Coral reef formations occur around the island, conspicuously.

In the present paper, the authors enumerated species of the rust fungi found in Yoron Island, based upon collections made by the junior author in March of 1961.

The total number of species, the junior author has collected in Yoron Island is ⁴²45, in which *Phakopsora* is represented by 2 sp., *Dasturella* 1 sp., *Coleosporium* 2 sp., *Kuehneola* 2 sp., *Hamaspora* 1 sp., *Phragmidium* 2 sp., *Endophyllum* 1 sp., *Poliotetium* 1 sp., *Uromyces* 8 sp. and *Puccinia* 22 sp. Among these species, the following 14 species are new additions to the rust-flora of the Amami Islands viz.: 1) *Phragmidium pauciloculare* (Diet.) P. et H. Sydow, 2) *Uromyces durus* Dietel, 3) *U. ervi* Westendorp, 4) *U. thermopsidicola* Shimabukuro, 5) *Puccinia breviculmis* Dietel, 6) *P. exhausta* Dietel, 7) *P. ferruginosa* P. et H. Sydow, 8) *P. lactucae-debilis* Dietel, 9) *P. levis* (Sacc. et Bizz.) Magnus, 10) *P. nakanishikii* Dietel, 11) *P. phellopteri* P. et H. Sydow, 12) *P. polliniicola* H. Sydow, 13) *P. purpurea* Cooke and 14) *P. recondita* Roberge ex Desm.

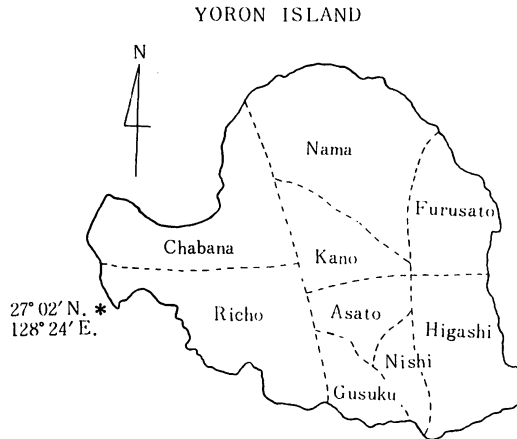
~~de la~~ The total number of species, the junior author has collected in Yoron Island is 45, in which there are 10 genera and 42 species in the island. Among them, the following 14 species are considered as new additions to the rust flora of the Amami Islands: *Phragmidium pauciloculare* (Diet.) P. et H. Sydow, *Uromyces durus* Dietel, *U. ervi* Westendorp, *U. thermopsidicola* Shimabukuro, *Puccinia breviculmis* Dietel, *P. exhausta* Dietel, *P. ferruginosa* P.

Table 1. Number of species of the rust fungi found in Yoron Island.

Families	Genera	Number of species
Melampsoraceae	<i>Phakopsora</i>	2
	<i>Dasturella</i>	1
	<i>Coleosporium</i>	2
Pucciniaceae	<i>Kuehneola</i>	2
	<i>Hamaspora</i>	1
	<i>Phragmidium</i>	2
	<i>Endophyllum</i>	1
	<i>Poliotetium</i>	1
	<i>Uromyces</i>	8
	<i>Puccinia</i>	22
Total		42

* Contribution from Laboratory of Phytopathology, Division of Agriculture, Home Economics & Engineering, University of the Ryukyus. no. 14.

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dele.
 et H. Sydow, *P. lactucae-debilis* Dietel, *P. levis* (Sacc. et Bizz.) Magnus, *P. nakanishikii* Dietel, *P. phellopteri* P. et H. Sydow, *P. polliniicola* H. Sydow, *P. purpurea* Cooke, *P. recondita* Roberge ex Desm.

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1. **Phakopsora fici-erectae** Ito et Otani in S. Ito & Murayama in Trans. Sapporo Nat. Hist. Soc. XVIII, p. 85, 1949.
 Hab. II. on *Ficus erecta* Thunberg (*Inubiwa*). Yoron Isl.: Gusuku (Mar. 15, 1961, M. T.,* no. Yoron-1). II. on *Morus australis* Poir. (*Shimagawa*). Yoron Isl.: Chabana (Mar. 13, 1961, M. T., no. Yoron-2).
2. **Phakopsora formosana** P. et H. Sydow in Ann. Myc. XII, p. 109, 1914.
 Hab. II. on *Glochidion obovatum* Sieb. et Zucc. (*Kankonoki*). Yoron Isl.: Chabana (Mar. 13, 1961, M. T., no. Yoron-3).
3. **Dasturella divina** (Syd.) Mundkur et Kheswalla in Mycologia, XXXV, p. 202, 1943.
 Hab. II, III. on *Bambusa multiplex* Raeusch (*Horai-chiku*). Yoron Isl.: Chabana (Mar. 12, 1961, M. T., no. Yoron-4).
4. **Coleosporium asterum** (Diet.) P. et H. Sydow in Ann. Myc. XII, p. 109, 1941.
 Hab. II. on *Aster indicus* L. (*Indoyomena*). Yoron Isl.: Chabana (Mar. 12, 1961, M. T., no. Yoron-5).
5. **Coleosporium clerodendri** Dietel in Bot. Jahrb. XXVII, p. 566, 1899.
 Hab. II. on *Clerodendron trichotomum* Thunb. (*Kusagi*). Yoron Isl.: Chabana (Mar. 13, 1961, M. T., no. Yoron-6).
6. **Kuehneola callicarpae** H. Sydow in Ann. Myc. XXVI, p. 420, 1928.
 Hab. 0, II, III. on *Callicarpa japonica* Thunb. var. *luxurians* Rehd. (*O-murasakishikibu*). Yoron Isl.: Asato (Mar. 15, 1961, M. T., no. Yoron-7).
7. **Kuehneola japonica** (Diet.) Dietel in Ann. Myc. X, p. 205, 1912.
 Hab. III. on *Rosa wichuraiana* Crep. (*Teriha-noibara*). Yoron Isl.: Richo (Mar. 14, 1961, M. T., no. Yoron-8).
8. **Hamasporea rubi-sieboldii** (Kawagoe) Dietel in Ann. Myc. XX, p. 293, 1922.
 Hab. II. on *Rubus sieboldi* Blume (*Horoku-ichigo*). Yoron Isl.: Nama (Mar. 13, 1961,

* M. T. = Masao Tamori.

M. T., no. Yoron-10).

9. *Phragmidium pauciloculare* (Diet.) P. et H. Sydow, Monogr. Ured. III, p. 138 & pl. VI, fig. 60, 1912.

Hab. II. on *Rubus parvifolius* Linn. (*Nawashiro-ichigo*). Yoron Isl.: Chabana (Mar. 13, 1961, M. T., no. Yoron-11).

10. *Phragmidium rosae-multiflorae* Dietel in Hedwigia, XLIV, p. 132, 345 & pl. IV, fig. 8, 1905.

Hab. II, III. on *Rosa wichuraiana* Crep. (*Teriha-noibara*). Yoron Isl.: Richo (Mar. 14, 1961, M. T., nos. Yoron-8 & 9).

11. *Endophyllum emasculatum* Arthur et Cummins in Philippine Jour. Sci. LXI, p. 475, 1936.

Hab. 0, III. on *Breynia rhamnoides* Müll-Arg. (*Oshima-koban-noki*). Yoron Isl.: Chabana (Mar. 13, 1961, M. T., no. Yoron-12).

12. *Poliotidium hyalospora* (Sawada) Mains in Bull. Torrey Bot. Club. LXVI, p. 175, 1939.

Hab. 0, II, III. on *Acacia confusa* Merr. (*Soshiju*). Yoron Isl.: Furusato (Mar. 13, 1961, M. T., no. Yoron-13).

13. *Uromyces commelinae* Cooke in Transact. Roy. Edinb. XXXI, p. 342, 1888.

Hab. II, III. on *Commelina nudiflora* L. (*Shima-tsuyukusa*). Yoron Isl.: Chabana (Mar. 13, 1961, M. T., no. Yoron-14).

14. *Uromyces durus* Dietel in Ann. Myc. V, p. 70, 1907.

Hab. II, III. on *Allium grayi* Regel (*Nobiru*). Yoron Isl.: Chabana (Mar. 13, 1961, M. T., no. Yoron-15).

15. *Uromyces ervi* Westendorp in Bull. Acad. Roy. Sci. de Belg. XXI, pt. 2, p. 246 & fig. 3, 1854.

Hab. 0, I, II, III. on *Vicia sepium* L. (*Karasuno-endo*). Yoron Isl.: Chabana (Mar. 13, 1961, M. T., no. Yoron-16). 0, I, III. on *Vicia hirstia* (L.) S. F. Gray (*Suzumeno-endo*). Yoron Isl.: Chabana (Mar. 15, 1961, M. T., no. Yoron-17).

16. *Uromyces euphorbiae* Cooke et Peck in Peck in Ann. Rept. N. Y. State Mus. XXV, p. 90, 1873.

Syn. *Uromyces proeminens* Léveillé in Ann. Sci. Nat. (III), VIII, p. 371 & 375, 1847.

Hab. 0, I, II, III. on *Euphorbia makinoi* Hayata (*Kobano-nishikiso*). Yoron Isl.: Chabana (Mar. 15, 1961, M. T., no. Yoron-18).

17. *Uromyces linealis* Berkeley et Broome in Jour. Linn. Soc. XIV, p. 92, 1875.

Hab. II. on *Panicum repens* L. (*Haikibi*). Yoron Isl.: Chabana (Mar. 12, 1961, M. T., no. Yoron-19).

18. *Uromyces tenuicutis* Mc Alpine, The rust of Australia, p. 87 & pl. XVI, fig. 133, 1906.

Hab. II, III. on *Sporobolus elongatus* R. Br. (*Nezumino-o*). Yoron Isl.: Chabana (Mar. 12, 1961, M. T., no. Yoron-20); Furusato (Mar. 13, 1961, M. T., no. Yoron-21).

19. *Uromyces thermopsidicola* Shimabukuro in Hiratsuka, f. & Shimabukuro, Sci. Bull. Agric. & Home Econ. Div. Univ. Ryukyus. no. 4, p. 119 & fig. 1, 1957.

Hab. II. on *Thermopsis chinensis* Benth. (*Kuso-endo*). Yoron Isl.: Richo (Mar. 14, 1961, M. T., no. Yoron-22).

20. *Uromyces wedeliae* Hennings in Hedwigia. XLIII, p. 150, 1904.

Hab. II, III. on *Wedelia prostrata* Hemsl. (*Hamaguruma*). Yoron Isl.: Higashi (Mar. 15, 1961, M. T., no. Yoron-23).

21. *Puccinia arthraxonis-ciliaris* Cummins in Uredineana. IV, p. 16 & fig. 9, 1953.

Hab. II, III. on *Arthraxon hispidus* (Thunb.) Makino (*Kobunagusa*). Yoron Isl.: Chabana (Mar. 13, 1961, M. T., no. Yoron-24).

22. *Puccinia breviculmis* Dietel in Ann. Myc. V, p. 72, 1907.

Hab. II, III. on *Carex breviculmis* R. Br. (*Aosuge*). Yoron Isl.: Gusuku (Mar. 15, 1961, M. T., no. Yoron-25).

23. *Puccinia citrina* P. et H. Sydow, Monogr. Ured. I, p. 634 & pl. XXXVI, fig. 483, 1903.
 Hab. II, III. on *Smilax china* L. (*Sarutori-ibara*). Yoron Isl.: Asato (Mar. 15, 1961, M. T. no. Yoron-26).
24. *Puccinia convolvuli* Castagne, Observ. Fl. Ured. I, p. 16, 1842.
 Hab. II. on *Calystegia soldanella* (L.) Roem. et Schult. (*Hamahirugao*). Yoron Isl.: Richo (Mar. 14, 1961, M. T., no. Yoron-27).
25. *Puccinia crepidis-japonicae* Dietel in Ann. Myc. VI, p. 226, 1908.
 Hab. II. on *Youngia japonica* (L.) DC. (*Onitabirako*). Yoron Isl.: Chabana (Mar. 13, 1961, M. T., no. Yoron-28); Furusato (Mar. 13, 1961, M. T., no. Yoron-29).
26. *Puccinia cynodontis* Lacroix ex Desm., pl. Crypt. Fr. II, no. 655, 1859.
 Hab. II, III. on *Cynodon dactylon* (L.) Persoon (*Gyogi-shiba*). Yoron Isl.: Chabana (Mar. 12, 1961, M. T., no. Yoron-30).
27. *Puccinia erebia* P. et H. Sydow in Philippine Jour. Sci. VIII, Bot. p. 475, 1913.
 Hab. II. on *Clerodendron inerme* Gaertn. (*Ibota-kusagi*). Yoron Isl.: Richo (Mar. 14, 1961, M. T., no. Yoron-31).
28. *Puccinia exhausta* Dietel in Bot. Jahrb. XXVIII, p. 283, 1900.
 Hab. 0, III, on *Clematis grata* Wall. (*Ke-botanzuru*). Yoron Isl.: Chabana (Mar. 12, 1961, M. T., no. Yoron-32).
29. *Puccinia ferruginosa* P. et H. Sydow, Monogr. Ured. I, p. 13, 1902.
 Hab. III. on *Artemisia dubia* Wall. (*Yomogi*). Yoron Isl.: Furusato (Mar. 13, 1961, M. T., no. Yoron-33).
30. *Puccinia lactucae-debilis* Dietel in Ann. Myc. VI, p. 225, 1908.
 Hab. 0, I, II, III. on *Ixeris japonica* (Burm.) Nakai (*Jishibari*). Yoron Isl.: Higashi (Mar. 15, 1961, M. T., no. Yoron-34).
31. *Puccinia levis* (Sacc. et Bizz.) Magnus in Ber. Deutsch. Bot. Ges. IX, p. 190 & pl. IX, figs. 28-37, 1891.
 Hab. II, III. on *Digitaria adscendence* (H. B. K.) Henry (*Henri-meishiba*). Yoron Isl.: Chabana (Mar. 12, 1961, M. T., no. Yoron-35).
32. *Puccinia minussensis* Thumen in Bull. Soc. Imp. Nat. Moscou LIII, p. 214, 1878.
 Hab. 0, I, II, III. on *Lactuca indica* Linn. var. *laciniata* (O. Kuntze) Hara (*Akino-nogeshi*). Yoron Isl.: Chabana (Mar. 13, 1961, M. T., no. Yoron-36).
33. *Puccinia miscanthi* Miura, Flora of Manchuria & E. Mongolia, III, p. 302, 1928.
 Hab. II. on *Miscanthus sinensis* Anders. (*Susuki*). Yoron Isl.: Chabana (Mar. 13, 1961, M. T., no. Yoron-37). II, III. on *Miscanthus floridulus* (Labill.) Warb. (*Tokiwa-susuki*). Yoron Isl.: Chabana (Mar. 12, 1961, M. T., no. Yoron-38).
34. *Puccinia nakanishikii* Dietel in Bot. Jahrb. XXXIV, p. 585, 1905.
 Hab. II, III. on *Cymbopogon tortilis* (Presl) Hitchc. (*Ogarukaya*). Yoron Isl.: Chabana (Mar. 13, 1961, M. T., no. Yoron-39).
35. *Puccinia paspalina* Cummins in Bull. Terrey Bot. Club. LXXXII, p. 211 & fig. 10, 1945.
 Syn. *Uredo paspalina* Sydow in Ann. Myc. XV, p. 117, 1917.
 Hab. II. on *Paspalum orbiculae* G. Forst. (*Suzumeno-kobie*). Yoron Isl.: Chabana (Mar. 13, 1961, M. T., no. Yoron-40).
36. *Puccinia phellopteri* P. et H. Sydow, Monogr. Ured. I, p. 406, 1903.
 Hab. II, III. on *Glehnia littoralis* F. Schmidt (Hamabofu). Yoron Isl.: Asato (Mar. 14, 1961, M. T., no. Yoron-41).
37. *Puccinia phyllostachydis* Kusano in Bull. Coll. Agr. Tokyo Imp. Univ. VIII, p. 2 & pl. V, figs. 1, 2, 10 & 11, 1908.
 Hab. II. on *Phyllostachys aurea* Carr. (*Hotei-chiku*). Yoron Isl.: Asato (Mar. 14, 1961, M. T., no. Yoron-42).
38. *Puccinia polliniicola* H. Sydow in H. Sydow & Petrak in Ann. Myc. XXIX, p. 156, 1931.
 Hab. II, III. on *Microstegium ciliatum* A. Camus (*O-sasagaya*). Yoron Isl.: Asato (Mar.

14, 1961, M. T., no. Yoron-43).

39. *Puccinia purpurea* Cooke in Grevillea. V, p. 15, 1876.

Hab. II. on *Sorghum bicolor* Moench. (*Morokoshi*). Yoron Isl.: Gusuku (Mar. 15, 1961, M. T., no. Yoron-44).

40. *Puccinia recondita* Roberge ex Desmazières in Bull. Soc. Bot. Fr. IV, p. 798, 1857.

Syn. *Puccinia agropyri* Ellis et Everhart in Journ. Myc. 7: 131, 1892.

Hab. II. III. on *Agropyron tsukushiense* (Honda) Ohwi var. *transiens* (Hack.) Ohwi (*Kamojigusa*). Yoron Isl.: Gusuku (Mar. 15, 1961, M. T., no. Yoron-45).

41. *Puccinia rufipes* Dietel in Bot. Jahrb. XXXII, p. 48, 1902.

Hab. II. on *Imperata cylindrica* (L.) Beauv. var. *Koenigii* (Retz.) Durand et Schinz. (*Chigaya*). Yoron Isl.: Chabana (Mar. 13, 1961, M. T., no. Yoron-46).

42. *Puccinia zoysiae* Dietel in Bot. Jahrb. XXXII, p. 48, 1902.

Hab. 0, I. on *Paederia scandens* (Lour.) Merrill (*Hekuso-kazura*). Yoron Isl.: Chabana (Mar. 13, 1961, M. T., no. Yoron-47). II, III. on *Zoysia tenuifolia* Willd. (*Korai-shiba*). Yoron Isl.: Gusuku (Mar. 15, 1961, M. T., no. Yoron-48). II, III. on *Zoysia matrella* Merr. (*Koshun-shiba*). Yoron Isl.: Kano (Mar. 13, 1961, M. T., no. Yoron-49).

与論島のサビ菌類 (摘要)

島袋俊一・田盛正雄

1. この報文は、琉球列島内の奄美群島に属する与論島のサビ菌についてまとめたものである。因に本島は未調査のままになっていた。

2. 与論島には層生サビ菌科3属5種、柄生サビ菌科7属37種、合計10属42種のサビ菌の産することが認められた。

3. この報文において次の14種が奄美群島産サビ菌フロラに新しく加わった。即ち *Phragmidium pauciloculae* (Diet.) P. et H. Sydow, *Uromyces durus* Dietel, *U. ervi* Westendorp, *U. thermopsidicila* Shimabukuro, *Puccinia breviculmis* Dietel, *P. exhausta* Dietel, *P. ferruginosa* P. et H. Sydow, *P. lactucae-debilis* Dietel, *P. levis* (Sacc. et Bizz.) Magnus, *P. nakanishikii* Dietel, *P. phellopteri* P. et H. Sydow, *P. polliniicola* H. Sydow, *P. purpurea* Cooke, *P. recondita* Roberge ex Desmazières.

正 誤 表

第七号“琉球列島の栽培植物に寄生するサビ菌類”(p. 315)第2表を次のように訂正します。

科	別	種類数	科	別	種類数
Gramineae (イネ科)		47	Liliaceae (ユリ科)		11
Leguminosae (マメ科)		22	Euphorbiaceae (タカトウダイ科)		11
Compositae (キク科)		22	Rubiaceae (アカネ科)		9
Cyperaceae (カヤツリグサ科)		17	Aspidiaceae (オシダ科)		8
Rosaceae (バラ科)		14	Pteridaceae (イノモトソウ科), etc.		7