



Title	Uredinales of the Satsunan Islands
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Citation	琉球大学農家政学部学術報告 = Science bulletin of Agriculture & Home Economics Division, University of the Ryukyus(2): 38-59
Issue Date	1955-04
URL	http://hdl.handle.net/20.500.12000/21547
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Uredinales of the Satsunan Islands¹⁾

By

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The Satsunan Islands treated in this paper constitute the two islands, Tanegashima and Yakushima, which are located in the northern-most part of the Ryukyu Archipelago. Tanegashima lies about 43 km. to the south-east of Cape Sata, Kyushu. It extends from 30°21' to 30°50' N. Lat. and from 130°52' to 131°05' E. Long. The area is 447 square kilometers. The island of Yakushima is situated within 30°13' and 30°28' N. Lat. and in the meridian of 130°22' and 130°41' E. Long., lying about 80 km. from Cape Sata to the south; it has an area of 539.37 square kilometers.

In 1935, Kiyoharu Ide(12) reported a rust fungus on *Rhaphiolepis umbellata* Mak. from Yakushima, as *Coleopuccinia* sp. It is the first account of the rust fungi from the Satsunan Islands. Since that time, there are 17 genera and 61 species of rust fungi which have been recorded by Hiratsuka(2~10), Morimoto(14), Katsuki(13), and Cummins(1), from the Islands.

In August 1954, Sato, one of the present authors and Yasuyuki Hiratsuka visited Yakushima, where they stayed for a week to collect specimens of rust fungi. Shimabukuro also paid a visit to the islands of Yakushima and Tanegashima, for the same purpose in September, 1954.

The materials used by the authors in the present work include, besides a number of collections made by Shimabukuro, Sato and Y. Hiratsuka from different places of Yakushima and Tanegashima Islands, certain specimens collected by K. Ide, Y. Morimoto, K. Togashi and S. Katsuki. The total number of specimens examined comes to more than four hundred.

The following tabulation gives the number of species, by genera,

¹⁾ Contributions from the Laboratories of Phytopathology and Mycology, Faculty of Agriculture, Tokyo University of Education. no. 26, also, Contributions from the Agriculture and Home Economics Division, University of the Ryukyus. no. 4.

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heretofore known from the Satsunan Islands, additions made to the list by the present paper and the total.

Number of species of rust fungi found in the Satsunan Islands

Families	Genera	Number of species			
		Previously reported	Present additions	Total	
Melampsoraceae	<i>Uredinopsis</i>	1	—	1	41
	<i>Milesina</i>	7	—	7	
	<i>Hyalopsora</i>	—	2	2	
	<i>Pucciniastrum</i>	4	3	7	
	<i>Melampsora</i>	—	2	2	
	<i>Phakopsora</i>	5	2	7	
	<i>Coleopucciniella</i>	1	—	1	
	<i>Coleosporium</i>	9	3	12	
	<i>Ochropsora</i>	1	—	1	
	<i>Pucciniostele</i>	—	1	1	
Pucciniaceae	<i>Gerwasia</i>	1	—	1	58
	<i>Kuehneola</i>	1	1	2	
	<i>Hamaspora</i>	1	—	1	
	<i>Phragmidium</i>	—	2	2	
	<i>Hemileia</i>	1	—	1	
	<i>Xenostele</i>	1	—	1	
	<i>Pileolaria</i>	1	1	2	
	<i>Uromyces</i>	6	3	9	
	<i>Puccinia</i>	16	23	39	
Uredinales Imperfecti	<i>Aecidium</i>	2	3	5	11
	<i>Uredo</i>	4	2	6	
Total		61	49	110	

As shown in the table, there are 21 genera and 110 species including 11 species of the form-genera, *Aecidium* and *Uredo*, which have been collected and identified in the Satsunan Islands.

The specimens studied are all kept in the Hiratsuka Herbarium, Tokyo, Japan, with duplicated thereof deposited in the Herbarium of University of the Ryukyus.

The authors wish to acknowledge their indebtedness to Messrs. Yasuji Morimoto and Shigetaka Katsuki, who have contributed specimens, and to Mr. Yasuyuki Hiratsuka who assisted in the collection of the materials. The expenses of the present work have been defrayed from a Grant in Aid for Developmental Scientific Research of the Department of Education (Tokyo, Japan), and from a Grant in Aid for Scientific Research by the University of the Ryukyus.

Enumeration of species

MELAMPSORACEAE

1. **Uredinopsis macrosperma** Magnus in Hedwigia, XLIII, p. 122, 1904. (Morimoto in Jour. Jap. Bot. XXVIII, p. 313, 1953).

Hab. II, (III). On *Pteridium aquilinum* Kühn var. *japonicum* Nakai (*Warabi*). Yakushima Isl.: Kosugidani (June 1, 1951, Y. M., no. 2033).

2. **Milesina Coniogrammes** Hiratsuka, f. in Bot. Mag. Tokyo, XLVIII, p. 45 & text-fig. 6, 1934.

Syn. *Milesina Hiratsukai* Y. Morimoto in Jour. Jap. Bot. XXVIII, p. 313, 1953.

Hab. II, (III). On *Plagiogyria japonica* Nakai (*Kijinoo-shida*). Yakushima Isl.: Kosugidani (June 2, 1951, Y. M., no. 2031); Ishidzuka~Hananoego (July 31, 1954, S. Sa. & Y. H., no. 2032).

3. **Milesina Diplazii** Hiratsuka, f. in Bot. Mag. Tokyo, XLVIII, p. 44 & fig. 5, 1934. (Morimoto in Jour. Jap. Bot. XXVIII, p. 313, 1953).

Hab. II, (III). On *Diplazium siroyamense* Tagawa (*Shiroyama-shida*). Yakushima Isl.: Haro-mura (June 5, 1951, Y. M., no. 1899).

4. **Milesina exigua** Faull in Jour. Arnold Arboretum, XII, p. 219, 1931. (Morimoto in Jour. Jap. Bot. XXVIII, p. 313, 1953).

Hab. II, (III). On *Dennstaedtia scabra* Moore (*Koba-no-ishikaguma*). Yakushima Isl.: Ishidzuka~Hananoego (July 31, 1954, S. Sa. & Y. H., no. 1904); Hananoego~Miyanooura-dake (Aug. 1, 1954, S. Sa. & Y. H., no. 1905).

II, (III). On *Hypolepis punctata* Mett. (*Iwa-himewarabi*). Yakushima Isl.: Hananoego~Kosugidani (Aug. 1, 1954, S. Sa. & Y. H., no. 1906).

II, (III). On *Microlepis strigosa* Presl. (*Ishikaguma*). Yakushima Isl.: Kurio (June 1, 1951, Y. M., no. 1907); Anbo (June 7, 1951, Y. M., no. 1908).

5. **Milesina Odontosoriae** Hiratsuka, f. in Bot. Mag. Tokyo,

¹⁾ The following abbreviations are used for the name of the collectors most frequently named in the list: S. S. = Shun-ichi Shimabukuro (島袋俊一); S. Sa. = Shoji Sato (佐藤昭二); Y. H. = Yasuyuki Hiratsuka (平塚保之); Y. M. = Yasuji Morimoto (森本泰二); S. K. Shigetaka Katsuki (香月繁孝); K. T. = Kogo Togashi (富樫浩吾).

XLVIII, p. 46, 1934. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 8, 1952; Morimoto in Jour. Jap. Bot. XXVIII, p. 313, 1953).

Hab. II, (III). On *Stenoloma chusanum* Ching var. *tenuifolia* Nemoto (*Horashinobu*). Yakushima Isl.: Kosugidani (June 1, 1951, Y. M., no. 1914).

6. **Milesina philippinensis** Sydow in Sydow & Petrak in Ann. Myc. XXIX, p. 172, 1931. (Morimoto in Jour. Jap. Bot. XXVIII, p. 312, 1953).

Hab. II, (III). On *Nephrolepis cordifolia* Presl. (*Tama-shida*). Yakushima Isl.: Haro-mura (June 4, 1951, Y. M., no. 2326).

7. **Milesina Polypodii-superficialis** Hiratsuka, f. in Mem. Tottori Agric. Coll. IV, p. 154, 1936. (Morimoto in Jour. Jap. Bot. XXVIII, p. 313, 1953).

Hab. II, (III). On *Colysis pothifolia* H. Ito (*Polypodium ellipticum* Thunb. var. *pothifolium* Mak.) (*O-iwahitode*). Yakushima Isl.: Onoaida (June 4, 1951, Y. M., no. 1912).

8. **Milesina pteridicola** Hiratsuka, f. in Hiratsuka, f. & Yoshinaga in Mem. Tottori Agric. Coll. III, p. 256, 1935. (Morimoto in Jour. Jap. Bot. XXVIII, p. 313, 1953).

Hab. II, (III). On *Pteris dispar* Kunze (*Amakusa-shida*). Yakushima Isl.: Onoaida~Kojima (Aug. 3, 1954, S. Sa. & Y. H., nos. 1909 & 1910).

II, (III). On *Pteris hachijoensis* Nakai (*Hachijyo-shida*). Yakushima Isl.: Haro-mura (June 5, 1951, Y. M., no. 1911).

9. **Hyalopsora aculeata** Kamei in Transact. Sapporo Nat. Hist. Soc. XII, p. 128 & text-figs. 1~3, 1932.

Hab. II, (III). On *Spicantopsis nipponica* Nakai var. *japonica* Nakai (*Shishigashira*). Yakushima Isl.: Ishidzuka~Hananoego (July 31, 1954, S. Sa. & Y. H., nos. 1902 & 1903).

10. **Hyalopsora Polypodii** (Diet.) Magnus in Ber. Deutsch. Bot. Ges. XIX, p. 582, 1901.

Hab. II, (III). On *Leptogramma totta* J. Sm. (*Mizoshida*). Yakushima Isl.: Kosugidani (Aug. 7, 1951, K. T. & S. K., no. 1918).

II, (III). On *Thelypteris laxa* Ching (*Yawara-shida*). Yakushima Isl.: Kosugidani~Anbo (Aug. 2, 1954, S. Sa. & Y. H., nos. 1919 & 1920).

11. **Pucciniastrum Actinidiae** Hiratsuka, f. in Mem. Tottori

Agric. Coll. IV, p. 279, 1936. (Katsuki in Jour. Jap. Bot. XXVIII, p. 281, 1953).

Hab. II, III. On *Actinidia rufa* Planch. (*Actinidia callosa* Lindl. var. *rufa* Mak.) (*Nashikadzura*). Yakushima Isl.: Hirano (Dec. 30, 1952, S. K., no. 1917). Tanegashima Isl.: Nishinoomote-machi (Sept. 22, 1954, S. S., no. 1915); Minamitane-mura (Sept. 23, 1954, S. S., no. 1916).

12. **Pucciniastrum Agrimoniae** (Diet.) Tranzschel in Script. Bot. Hort. Univ. Petropol. IV, p. 301, 1895.

Hab. II, (III). On *Agrimonia pilosa* Ledeb. var. *japonica* Nakai (*Kinmidzuhiki*). Yakushima Isl.: Kosugidani (Sept. 8, 1954, S. S., no. 1922); Kosugidani~Anbo (Aug. 2, 1954, S. Sa. & Y. H., nos. 1925 & 1926); Hananoego~Kosugidani (Aug. 1, 1954, S. Sa. & Y. H., no. 1924). Tanegashima Isl.: Minamitane-mura (Sept. 23, 1954, S. S., no. 1921).

13. **Pucciniastrum Boehmeriae** Sydow in Ann. Myc. I, p. 19, 1903.

Hab. II, (III). On *Boehmeria* sp. Yakushima Isl.: Kosugidani~Anbo (Aug. 2, 1954, S. Sa. & Y. H., no. 1933).

14. **Pucciniastrum Corni** Dietel in Bot. Jahrb. XXXII, p. 587, 1905. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 13, 1952).

Hab. II, III. On *Cynoxylon japonica* Nakai (*Yamaboshi*). Yakushima Isl.: Kosugidani (Oct. 16, 1949, S. K., no. 1934).

15. **Pucciniastrum Hydrangeae-petiolaridis** Hiratsuka, f. in Jour. Facul. Agric. Hokkaido Imp. Univ. XXI, p. 27 & 93 & pl. I, fig. 4, 1927. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 13, 1952).

Hab. II, (III). On *Hydrangea petiolaris* Sieb. et Zucc. (*Tsuru-ajisai*). Yakushima Isl.: Kosugidani (Sept. 7 & 10, 1954, S. S., nos. 1938 & 1939); Kosugidani~Anbo (Aug. 2, 1954, S. Sa. & Y. H., no. 1935).

16. **Pucciniastrum Stachyuri** Hiratsuka, f. et Yoshinaga in Mem. Tottori Agric. Coll. III, p. 262, 1935.

Hab. II, (III). On *Stachyurus Matsuzakii* Nakai (*Hachijyo-kibushi*). Yakushima Isl.: Kosugidani (Sept. 7, 1954, S. S., no. 1949).

17. **Pucciniastrum Styracinum** Hiratsuka in Bot. Mag. Tokyo,

XII, p. 32 & pl. II, figs. 7~13, 1898. (Hiratsuka, f. in Jour. Jap. Bot. XII, p. 270, 1936; Mem. Facul. Agric. Tokyo Univ. Education, I, p. 14, 1952).

Hab. II, III. On *Styrax japonica* Sieb. et Zucc. (*Ego-no-ki*). Yakushima Isl.: "Yakushima" (Dec. 31, 1933 & Jan. 2, 1934, K. Ide, nos. 582 & 581); Anbo (July 30, 1954, S. Sa. & Y. H., no. 1988); Kosugidani (Sept. 8, 1954, S. S., no. 1989; Aug. 8, 1951, K. T. & S. K., no. 1990); Miyanoura (Oct. 13, 1949, S. K., no. 1991). Tanegashima Isl.: Nishinoomote-machi (Sept. 27, 1954, S. S., no. 1992).

18. **Melampsora Idesia** Miyabe ex Hiratsuka in Bot. Mag. Tokyo, XI, p. 45 & pl. IV, figs. 1~3, 1897.

Hab. II, (III). On *Cathayaia polycarpa* Ohwi (*Idesia polycarpa* Maxim.) (*Iigiri*). Yakushima Isl.: Ishidzuka~Hananoego (July 31, 1954, S. Sa. & Y. H., no. 1986).

19. **Melampsora Yoshinagai** Hennings in Hedwigia, XLII, p. (198), 1903.

Hab. II, (III). On *Wikstroemia yakushimensis* Nakai (*Shimasakura-gampi*). Yakushima Isl.: Kosugidani~Anbo (Aug. 2, 1954, S. Sa. & Y. H., no. 1976).

20. **Phakopsora Ampelopsidis** Dietel et Sydow in Dietel in Hedwigia, XXXVII, p. 217, 1898. (Hiratsuka, f. in Jour. Jap. Bot. XII, p. 269, 1936; Mem. Facul. Agric. Tokyo Univ. Education, I, p. 17, 1952).

Hab. II, III. On *Ampelopsis brevipedunculata* Trautv. var. *Maximowiczii* Rehd. (*No-budo*). Yakushima Isl.: "Yakushima" (Jan. 1, 1934, K. Ide); Anbo (Aug. 9, 1951, K. T. & S. K., no. 1978; Sept. 14, 1954, S. S., no. 1979); Onoaida (Aug. 3, 1954, S. Sa. & Y. H., nos. 1981 & 1982). Tanegashima Isl.: Nishinoomote-machi (Sept. 20, 1954, S. S., no. 1983).

21. **Phakopsora Artemisiae** Hiratsuka, f. in Jap. Jour. Bot. III, p. 298, 1927. (Hiratsuka, f. in Jour. Jap. Bot. XII, p. 269, 1936; Mem. Facul. Agric. Tokyo Univ. Education, I, p. 18, 1952).

Hab. II, (III). On *Artemisia* sp. Yakushima Isl.: Kosugidani~Anbo (Aug. 2, 1954, S. Sa. & Y. H., no. 1971).

II, (III). On *Eupatorium variabile* Mak. (*Yama-hiyodori*). Yakushima Isl.: Mt. Mochomu (Oct. 19, 1949, S. K., no. 1970); "Yakushima" (Jan. 1, 1934, K. Ide, no. 1969, sub "*Eupatorium luchuense* Nakai").

22. **Phakopsora Ehretiae** Hiratsuka in Bot. Mag. Tokyo, XIV, p. 91 & pl. III, figs. 10~13, 1900.

Hab. II, III. On *Ehretia ovalifolia* Hassk. (*Chisha-no-ki*). Yakushima Isl.: Miyanoura (Sept. 16, 1954, S. S., no. 1975).

23. **Phakopsora Fici-erectae** Ito et Otani in Bot. & Zool. IX, p. 663 & text-fig. 2, 1941 (nom. seminud.); Ito & Murayama in Transact. Sapporo Nat. Hist. Soc. XVIII, p. 85, 1949. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 19, 1952; Morimoto in Jour. Jap. Bot. XXVIII, p. 313, 1953).

Hab. II, III. On *Ficus erecta* Thunb. (*Inu-biwa*). Yakushima Isl.: Anbo (July 30, 1954, S. Sa. & Y. H., no. 1961; Sept. 5, 1954, S. S., no. 1962); Onoaida (Aug. 3, 1954, S. Sa. & Y. H., no. 1963); Kurio~Okawa (Aug. 4, 1954, S. Sa. & Y. H., nos. 1964 & 1965). Tanegashima Isl.: Nishinoomote-machi (Sept. 20, 1954, S. S., no. 1966).

II, (III). On *Ficus Miyagii* Koidz. (*Akame-inubiwa*). Yakushima Isl.: Anbo (Sept. 5, 1954, S. S., no. 1967).

II, (III). On *Morus australis* Poir. (*Shima-guwa*). Yakushima Isl.: Miyanoura (Sept. 17, 1954, S. S., no. 1527). Tanegashima Isl.: Nishinoomote-machi (Sept. 21, 1954, S. S., no. 1968).

24. **Phakopsora incompleta** (Syd.) Cummins in Mycologia, XLII, p. 786, 1950. (Katsuki in Jour. Jap. Bot. XXVIII, p. 281, 1953).

Hab. II, (III). On *Ischaemum crassipes* Thell. var. *formosanum* Nakai (*Taiwan-kamonohashi*). Yakushima Isl.: Anbo (Dec. 29, 1952, S. K., no. 2005; July 30, 1954, S. Sa. & Y. H., no. 2008; Sept. 5, 1954, S. S., no. 2009); Kosugidani~Anbo (Aug. 2, 1954, S. Sa. & Y. H., nos. 2010 & 2011); Kurio (Aug. 3, 1954, S. Sa. & Y. H., no. 2014); Onoaida (Aug. 3, 1954, S. Sa. & Y. H., no. 2018); Onoaida~Kojima (Aug. 3, 1954, S. Sa. & Y. H., no. 2019); Kurio~Okawa (Aug. 4, 1954, S. Sa. & Y. H., no. 2021). Tanegashima Isl.: Minamitane-mura (Sept. 24, 1954, S. S., no. 2022).

II, (III). On *Microstegium ciliatum* A. Camus (*O-sasagaya*). Yakushima Isl.: Onoaida (Aug. 3, 1954, S. Sa. & Y. H., nos. 1973 & 1974).

25. **Phakopsora Malloti** (Racib.) Cummins in Mycologia, XXXII, p. 372, 1940.

Syn. *Crossopsora Malloti* (non Cummins) (Katsuki in Jour. Jap. Bot. XXVIII, p. 281, 1953).

Hab. II, (III). On *Mallotus japonicus* Müll.-Arg. (*Akame-*

gashiwa). Yakushima Isl.: Anbo (Dec. 29, 1952, S. K., no. 1972).

26. **Phakopsora Pachyrhizi** Sydow in Ann. Myc. XII, p. 108, 1914.

Hab. II, III. On *Glycine Max* Merr. (*Glycine Soja* Benth.) (*Daidzu*) (*cult.*). Tanegashima Isl.: Nishinoomote-machi (Sept. 22, 1954, S. S., no. 1985).

27. **Coleopucciniella Idei** Hiratsuka, f. in Jour. Jap. Bot. XIII, p. 245, 1937. (Hiratsuka, f. in Jour. Jap. Bot. XIII, p. 245, 1937; Mem. Facul. Agric. Tokyo Univ. Education, I, p. 22, 1952).

Syn. *Coleopuccinia* sp. (Ide in Jour. Jap. Bot. XI, p. 334, 1935).

Hab. III. On *Rhaphiolepis umbellata* Mak. (*Sharinbai*). Yakushima Isl.: Anbo~Miyamoura (Dec. 31, 1933, K. Ide, no. 2330); Onoaida~Haro-mura (Aug. 5, 1954, S. Sa. & Y. H., no. 1465); Kurio~Okawa (Aug. 4, 1954, S. Sa. & Y. H., no. 1467); Nakama~Kurio (Aug. 3, 1954, S. Sa. & Y. H., nos. 1468 & 1469). Tanegashima Isl.: Nishinoomote-machi (Sept. 27, 1954, S. S., no. 1472).

28. **Coleosporium Bletiae** Dietel in Hedwigia, XXXVII, p. 216, 1898. (Morimoto in Jour. Jap. Bot. XXVIII, p. 314, 1953).

Hab. II, III. On *Calanthe discolor* Lindl. (*Ebine*). Yakushima Isl.: Haro-mura (June 5, 1951, Y. M., no. 1458); Mt. Mochomu (Oct. 19, 1949, S. K., no. 1459).

29. **Coleosporium Campanulae** Léveillé in Ann. Sci. Nat (III), VIII, p. 373, 1847. (Morimoto in Jour. Jap. Bot. XXVIII, p. 314, 1953).

Hab. II, III. On *Wahlenbergia marginata* DC. (*Hina-gikyo*). Yakushima Isl.: Kurio (Aug. 3, 1954, S. Sa. & Y. H., nos. 1418 & 1419).

30. **Coleosporium Carpesii** Saccardo in Riv. Acc. di Padova, XXIV, p. 208, 1874. (Morimoto in Jour. Jap. Bot. XXVIII, p. 314, 1953).

Hab. II, III. On *Carpesium cernuum* L. (*Ko-yabutabako*). Yakushima Isl.: Onoaida (Aug. 3, 1954, S. Sa. & Y. H., no. 2334).

II, III. On *Carpesium divaricatum* Sieb. et Zucc. (*Gankubiso*). Yakushima Isl.: Kosugidani (Sept. 8, 1954, S. S., no. 2335).

II, III. On *Carpesium rosulatum* Miq. (*Hime-gankubiso*). Tanegashima Isl.: Nishinoomote-machi (Sept. 21, 1954, S. S., no. 2336).

31. **Coleosporium Clematidis** Barclay in Jour. Asiatic Soc. Bengal, LIX, pt. 2, p. 89 & pl. VI, figs. 3 & 5, 1890.

Hab. II, III. On *Clematis Maximowicziana* Franch. et Sav. (*Senninso*). Yakushima Isl.: Onoaida~Haro-mura (Aug. 5, 1954, S. Sa. & Y. H., nos. 1444 & 1445). Tanegashima Isl.: Nishinoomote-machi (Sept. 25, 1954, S. S., no. 1448).

32. **Coleosporium Clematidis-apiifoliae** Dietel in Bot. Jahrb. XXVIII, p. 287, 1900.

Hab. II, III. On *Clematis apiifolia* DC. (*Botandzuru*). Yakushima Isl.: Anbo (Sept. 18, 1954, S. S., no. 1417).

33. **Coleosporium Clerodendri** Dietel in Bot. Jahrb. XXVIII, p. 566, 1899. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 26, 1952; Morimoto in Jour. Jap. Bot. XXVIII, p. 314, 1953).

Hab. II, III. On *Clerodendron trichotomum* Thunb. (*Kusagi*). Yakushima Isl.: Anbo (July 30, 1954, S. Sa. & Y. H., nos. 1420 & 1421); Kosugidani (Sept. 8, 1954, S. S., no. 1422); Kosugidani~Anbo (Aug. 2, 1954, S. Sa. & Y. H., no. 1423); Onoaida (Aug. 3, 1954, S. Sa. & Y. H., no. 1424); Onoaida~Haro-mura (Aug. 1, 1954, S. Sa. & Y. H., no. 1425); Kurio (Aug. 3, 1954, S. Sa. & Y. H., no. 1426); Kurio~Okawa (Aug. 4, 1954, S. Sa. & Y. H., no. 1427). Tanegashima Isl.: Nishinoomote-machi (Sept. 20, 1954, S. S., no. 1428).

34. **Coleosporium Evodiae** Dietel in Ann. Myc. VII, p. 353, 1909. (Hiratsuka, f. in Jour. Jap. Bot. XII, p. 271, 1936; Mem. Facul. Agric. Tokyo Univ. Education, I, p. 27, 1952).

Hab. II, (III). On *Evodia glauca* Miq. (*Shima-kuroki*). Yakushima Isl.: "Yakushima" (Dec. 31, 1933 & Jan. 2, 1934, K. Ide. nos. 648 & 651); Onoaida~Kojima (Aug. 3, 1954, S. Sa. & Y. H., no. 1455); Anbo (Sept. 18, 1954, S. S., no. 1456). Tanegashima Isl.: Nishinoomote-machi (Sept. 22, 1954, S. S., no. 1457).

35. **Coleosporium Paederiae** Dietel in Ann. Myc. VII, p. 335, 1909. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 28, 1952; Morimoto in Jour. Jap. Bot. XXVIII, p. 314, 1953).

Hab. II, (III). On *Paederia chinensis* Hance. (*Yaitobana*). Yakushima Isl.: Anbo (July 30, 1954, S. Sa. & Y. H., no. 1452); Kosugidani~Anbo (Aug. 2, 1954, S. Sa. & Y. H., no. 1453); Miya-noura (Sept. 17, 1954, S. S., no. 1454).

36. **Coleosporium Perillae** Sydow in Hedwigia, XXXVIII, p. (141), 1899. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 28, 1952).

Hab. II, III. On *Orthodon punctulatum* Ohwi (*Inukojoyu*). Yakushima Isl.: Miyanoura (Sept. 17, 1954, S. S., no. 1449). Tanegashima Isl.: Nishinoomote-machi (Sept. 25, 1954, S. S., no. 1450).

II, (III). On *Perilla frutescens* Brit. var. *citriodora* Ohwi (*Remon-egoma*) (*cult.*). Tanegashima Isl.: Nishinoomote-machi (Sept. 21, 1954, S. S., no. 1451).

II, III. On *Perilla frutescens* Brit. var. *typica* Mak. (*Egoma*) (*cult.*). Yakushima Isl.: "Yakushima" (S. K.).

37. **Coleosporium Petasitis** Léveillé in Ann. Sci. Nat. (III), VIII, p. 373, 1847. (Morimoto in Jour. Jap. Bot. XXVIII, p. 314, 1953).

Hab. II, III. On *Petasites japonicus* Miq. (*Fuki*). Yakushima Isl.: Anbo~Kosugidani (Aug. 2, 1954, S. Sa. & Y. H., no. 1411); Kosugidani (Sept. 7, 1954, S. S., no. 1412); Hananoego~Kosugidani (Aug. 1, 1954, S. Sa. & Y. H., nos. 1413 & 1414); Ishidzuka~Hananoego (July 31, 1954, S. Sa. & Y. H., nos. 1415 & 1416).

38. **Coleosporium Plectranthi** Barclay in Jour. Asiatic Soc. Bengal, LIX, p. 89 & pl. VI, fig. 4, 1890.

Hab. II, III. On *Isodon japonicus* Hara (*Amethystanthus japonicus* Nakai) (*Hikiokoshi*). Yakushima Isl.: Miyanoura (Sept. 16, 1954, S. S., no. 1408).

39. **Coleosporium Xanthoxyli** Dietel et Sydow in Dietel in Hedwigia, XXXVII, p. 217, 1898. (Hiratsuka, f. in Jour. Jap. Bot. XII, p. 272, 1936; Mem. Facul. Agric. Tokyo Univ. Education, I, p. 30, 1952; Morimoto in Jour. Jap. Bot. XXVIII, p. 312, 1953).

Hab. II, III. On *Fagara ailanthoides* Engl. (*Karasuzansho*). Yakushima Isl.: Miyanoura (Aug. 5, 1951, K. T. & S. K., no. 1478). Tanegashima Isl.: Minamitane-mura (Sept. 23, 1954, S. S., no. 1479).

II, III. On *Fagara mantchurica* Honda (*Inuzansho*). Yakushima Isl.: "Yakushima" (Jan. 2, 1934, K. Ide, no. 641); Anbo (July 30, 1954, S. Sa. & Y. H., nos. 1483 & 1484; Sept. 5, 1954, S. S., no. 1482); Kurio~Okawa (Aug. 4, 1954, S. Sa. & Y. H., no. 1481); Ono-aida~Haro-mura (Aug. 5, 1954, S. Sa. & Y. H., no. 1480). Tanegashima Isl.: Nishinoomote-machi (Sept. 21, 1954, S. S., no. 1485).

40. **Ochropsora Nambuana** (P. Henn.) Dietel in Ann. Myc. VI, p. 228, 1908. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 32, 1952).

Hab. II, (III). On *Elaeagnus crispa* Thunb. (*Aki-gumi*). Yakushima Isl.: Isso (Aug. 5, 1951, K. T. & S. K., no. 1476).

II, III. On *Elaeagnus umbellata* Thunb. (*Aki-gumi*). Yakushima Isl.: Anbo (Oct. 23, 1949, S. K., no. 1477).

II, (III). On *Elaeagnus umbellata* Thunb. var. *rotundifolia* Mak. (*Maruba-akigumi*). Yakushima Isl.: Kurio (Aug. 3, 1954, S. Sa. & Y. H., nos. 1474 & 1475).

41. **Pucciniostele Clarkiana** (Barcl.) Dietel in Bot. Jahrb. XXVII, p. 564, 1899.

Hab. I, III. On *Astilbe Thunbergii* Miq. var. *terrestris* Ohwi (*Astilbe glaberrima* Nakai) (*Yakushima-shoma*). Yakushima Isl.: Hananoego~Miyanoura-dake (Aug. 1, 1954, S. Sa. & Y. H., nos. 1406 & 1407).

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42. **Gerwasia Rubi** Raciborski in Bull. Acad. Sci. Cracovie, Cl. Sci. math. et nat. (1909), p. 271, 1909. (Morimoto in Jour. Jap. Bot. XXVIII, p. 314, 1953).

Hab. II, (III). On *Rubus Buergeri* Miq. (*Fuyu-ichigo*). Yakushima Isl.: Kosugidani (June 1, 1951, Y. M., no. 1409).

43. **Kuehneola Callicarpae** Sydow in Sydow et Petrak in Ann. Myc. XXVI, p. 420, 1928. (Hiratsuka, f. in Jour. Jap. Bot. XII, p. 811, 1936; Mem. Facul. Agric. Tokyo Univ. Education, I, p. 35, 1952).

Hab. II, III. On *Callicarpa japonica* Thunb. (*Murasaki-shikibu*). Tanegashima Isl.: Nishinoomote-machi (Sept. 27, 1954, S. S., no. 1410).

II, III. On *Callicarpa japonica* Thunb. var. *luxurians* Rehd. (*O-murasaki-shikibu*). Yakushima Isl.: "Yakushima" (Dec. 31, 1933, K. Ide, no. 2341).

44. **Kuehneola japonica** (Diet.) Dietel in Ann. Myc. X, p. 205, 1912.

Hab. III. On *Rosa Wichuraiana* Crep. (*Teriha-noibara*). Yakushima Isl.: Anbo (July 30, 1954, S. Sa. Y. H., nos. 1431 & 1432; Aug. 9, 1951, K. T. & S. K., no. 1434; Sept. 14, 1954, S. S., no. 1435); Kurio (Aug. 3, 1954, S. Sa. & Y. H., no. 1436); Kurio~Okawa (Aug. 4, 1954, S. Sa. & Y. H., no. 1437). Tanegashima Isl.: Nishinoomote-machi (Sept. 25, 1954, S. S., no. 1438).

III. On *Rosa* sp. Yakushima Isl.: Ishidzuka~Hananoego (July 31, 1954, S. Sa. & Y. H., no. 1439).

45. **Hamaspora Rubi-Sieboldii** (Kawagoe) Dietel in Ann. Myc. XX, p. 293, 1922. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 36, 1952; Jubilee Publ. Profs. Tochinai & Fukushi, p. 130, 1955; Morimoto in Jour. Jap. Bot. XXVIII, p. 314, 1953).

Hab. II, III. On *Rubus Sieboldi* Bl. (*Horoku-ichigo*). Yakushima Isl.: Anbo (June 8, 1951, Y. M., no. 2329); Kosugidani (June 1, 1951, Y. M., no. 2328; Aug. 8, 1951, K. T. & S. K., no. 2327); Ishidzuka~Hananoego (July 31, 1954, S. Sa. & Y. H., nos. 1460 & 1461).

46. **Phragmidium griseum** Dietel in Bot. Jahrb. XXXII, p. 49, 1902.

Hab. II, (III). On *Rubus croceacanthus* Lév. (*Rubus rosae-folius* var. *tropicus* f. *minor* Mak.) (*O-baraichigo*). Yakushima Isl.: Miyanoura (Sept. 17, 1954, S. S., no. 1463).

47. **Phragmidium pauciloculare** (Diet.) Sydow, Monogr. Ured. III, p. 138 & pl. IV, fig. 60, 1912.

Hab. II, III. On *Rubus parvifolius* L. var. *triphyllus* Nakai (*Nawashiro-ichigo*). Yakushima Isl.: Onoaida (Aug. 3, 1954, S. Sa. & Y. H., no. 1400); Onoaida~Haro-mura (Aug. 5, 1954, S. Sa. & Y. H., no. 1401); Miyanoura (Sept. 16, 1954, S. S., no. 1402).

48. **Hemileia Gardeniae-floridae** Sawada in Transact. Nat. Hist. Soc. Formosa, XXI, p. 234, 1931 (nom. seminud.); Hiratsuka, f. & Yoshinaga in Mem. Tottori Agric. Coll. III, p. 274, 1935. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 33, 1952).

Hab. II, (III). On *Gardenia jasminoides* Ell. var. *grandiflora* Nakai (*Kuchinashi*). Yakushima Isl.: "Yakushima" (T. Tamotsu).

49. **Xenosteles Sakamotoi** (Hirats. f. et Yoshinaga) Ito et Murayama in Transact. Sapporo Nat. Hist. Soc. XVII, p. 170, 1943. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 42, 1952; Morimoto in Jour. Jap. Bot. XXVIII, p. 314, 1953).

Hab. III. On *Distylium racemosum* Sieb. et Zucc. (*Isu*). Yakushima Isl.: Anbo~Kosugidani (June 1, 1951, Y. M., no. 2331).

50. **Pileolaria Pistaciae** Tai et Wei in Sinensia, IV, p. 108 & fig. 39, 1933. Katsuki in Jour. Jap. Bot. XXVIII, p. 281, 1953).

Hab. II, II. On *Pistacia chinensis* Bunge (*Toriba-haze*). Yakushima Isl.: Anbo (Aug. 6, 1951, K. T. & S. K., no. 2337).

51. **Pileolaria Shiraiana** (Diet. et Syd.) Ito in Jour. Coll. Agric. Hokkaido Imp. Univ. XI, p. 273 & pl. IX, fig. 13, 1922.

Hab. II, III. On *Rhus succedanea* L. (*Haze-no-ki*). Yakushima Isl.: Haro-mura (Aug. 5, 1954, S. Sa. & Y. H., no. 2342).

52. **Uromyces azukicola** S. Hirata in Ann. Phytopath. Soc. Japan, XVI, p. 18 & text-fig. 3, 1952.

Hab. (0, I), II, III. On *Phaseolus angularis* Wight. (*Adzuki*) (*cult.*). Tanegashima Isl.: Nishinoomote-machi (Sept. 27, 1954, S. S., no. 1464).

53. **Uromyces Commelinae** Cooke in Transact. Roy. Soc. Edinb. XXXI, p. 432, 1888. (Morimoto in Jour. Jap. Bot. XXVIII, p. 315, 1953).

Hab. II, (III). On *Commelina communis* L. (*Tsuyukusa*). Yakushima Isl.: Onoaida~Haro-mura (Aug. 5, 1954, S. Sa. & Y. H., no. 1441); Kosugidani~Anbo (Aug. 2, 1954, S. Sa. & Y. H., no. 1442).

II, (III). On *Commelina* sp. Yakushima Isl.: Kosugidani Anbo (Aug. 2, 1954, S. Sa. & Y. H., no. 1443).

54. **Uromyces Itoanus** Hiratsuka, f. in Hiratsuka, f. & Tobinaga in Ann. Phytopath. Soc. Japan, IV, p. 161, 1935. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 48, 1952).

Hab. (0, I), II, III. On *Kummerowia striata* Schindl. (*Yahadzuso*). Yakushima Isl.: Miyanoura (Oct. 16, 1949, S. K., no. 2348).

55. **Uromyces Lespedezae-procumbentis** (Schw.) Curtis in Geol. Nat. Hist. Survey N. Car. III, p. 123, 1867.

Hab. (0, I), II, III. On *Lespedeza cyrtobotrya* Miq. (*Marubahagi*). Yakushima Isl.: Onoaida (Aug. 3, 1954, S. Sa. & Y. H., no. 1429).

II, III. On *Lespedeza pilosa* Sieb. et Zucc. (*Nekohagi*). Tanegashima Isl.: Nishinoomote-machi (Sept. 27, 1954, S. S., no. 1430).

56. **Uromyces linearis** Berkeley et Broome in Jour. Linn. Soc. XIV, p. 92, 1875. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 50, 1952).

Hab. II, (III). On *Panicum repens* L. (*Hai-kibi*). Yakushima Isl.: Anbo (Sept. 14, 1954, S. S., no. 1405).

57. **Uromyces Setariae-italicae** Yoshino in Bot. Mag. Tokyo, XX, p. 247, 1906.

Hab. II, (III). On *Setaria viridis* Beauv. (*Enokorogusa*). Tanegashima Isl.: Nishinoomote-machi (Sept. 27, 1954, S. S., no. 1495).

II, (III). On *Setaria viridis* Beauv. var. *pachystachys* Mak. et Nem. (*Hama-enokoro*). Yakushima Isl.: Kurio (Aug. 3, 1954, S. Sa. & Y. H., no. 2340).

58. **Uromyces tenuicutis** Mc Alpine, The rusts of Australia, p. 87 & pl. XVI, fig. 133, 1906. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 52, 1952).

Hab. II, (III). On *Sporobolus elongatus* R. Br. (*Nezuminoo*). Yakushima Isl.: Anbo (Oct. 23, 1949, S. K., no. 2349).

59. **Uromyces Wedeliae** Hennings in Hedwigia, XLIII, p. 150, 1904. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 53, 1952; Morimoto in Jour. Jap. Bot. XXVIII, p. 315, 1953).

Hab. II, III. On *Wedelia biflora* DC. (*Shima-hamaguruma*). Yakushima Isl.: Kurio (Aug. 3, 1954, S. Sa. & Y. H., no. 1486); Onoaida~Haro-mura (Aug. 5, 1954, S. Sa. & Y. H., no. 1493); Nakama~Kurio (Aug. 3, 1954, S. Sa. & Y. H., nos. 1490~1492).

60. **Uromyces yakushimensis** Hiratsuka, f. et Katsuki in Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 53, 1952. (Katsuki in Jour. Jap. Bot. XXVIII, p. 281, 1953).

Hab. II, III. On *Trichosanthes bracteata* Voigt. (*O-karasuuri*). Yakushima Isl.: "Yakushima" (Oct. 13, 1949, S. K., type!, no. 2350); Anbo (Sept. 11, 1954, S. S., no. 1404). Tanegashima Isl.: Nishino-mote-machi (Sept. 22, 1954, S. S., no. 1403).

61. **Puccinia Agropyri** Ellis et Everhart in Jour. Myc. VII, p. 131, 1892.

Hab. II, (III). On *Agropyron Kamoji* Ohwi (*Kamojigusa*). Yakushima Isl.: Kosugidani~Anbo (Aug. 2, 1954, S. Sa. & Y. H., no. 1545).

62. **Puccinia Agropyri-ciliaris** Tai et Wei in Sinensia, IV, p. 110 & fig. 41, 1933.

Hab. II, III. On *Agropyron ciliare* Franch. (*Ao-kamojigusa*). Yakushima Isl.: Kurio (June 4, 1951, Y. M., no. 1547; Aug. 3, 1954, S. Sa. & Y. H., no. 1546).

63. **Puccinia Ainsliaeae** Sydow, Monogr. Ured. I, p. 6, 1902.

Hab. III. On *Ainsliaea apiculata* Sch.-Bip. (*Kikko-haguma*). Yakushima Isl.: Hananoego~Miyanoura-dake (Aug. 1, 1954, S. Sa. & Y. H., nos. 1548 & 1550); Ishidzuka~Hananoego (July 31, 1954, S. Sa. & Y. H., nos. 1549 & 1558).

64. **Puccinia Angelicae** (Schum.) Fuckel in Jahrb. Nass. Ver. Nat. XXIII/XXIV, p. 52, 1870. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 56, 1952; Morimoto in Jour. Jap. Bot. XXVIII, p. 314, 1953).

Hab. II, (III). On *Peucedanum japonicum* Thunb. (*Botanbofu*). Yakushima Isl.: Kurio (June 4, 1951, Y. M., no. 1556); Nakama~Kurio (Aug. 3, 1954, S. Sa. & Y. H., nos. 1554 & 1555).

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

Hab. II, (III). On *Arthraxon hispidus* Mak. (*Kobunagusa*). Yakushima Isl.: Onoaida~Kojima (Aug. 3, 1954, S. Sa. & Y. H., no. 1544). Tanegashima Isl.: Minamitane-mura (Sept. 23, 1954, S. S., no. 1543).

66. ***Puccinia Arundinellae-anomalae*** Dietel in *Bot. Jahrb.* XXXVII, p. 100, 1905.

Hab. II, III. On *Arundinella hirta* Tanaka var. *ciliata* Koidz. (*Todashiba*). Yakushima Isl.: Miyanoura (Sept. 16, 1954, S. S., no. 1542).

67. ***Puccinia benokiyamensis*** Hiratsuka, f. in *Transact. Sapporo Nat. Hist. Soc.* XVII, p. 25, 1941.

Hab. II, III. On *Ampelgonum umbellatum* Masamune (*Tsurusoba*). Yakushima Isl.: Kosugidani (June 1, 1951, Y. M., no. 1540); Kosugidani~Anbo (Aug. 2, 1954, S. Sa. & Y. H., no. 1541).

68. ***Puccinia Buxi*** De Candolle, *Fl. Fr.* VI, p. 60, 1815. (Hiratsuka, f. in *Mem. Facul. Agric. Tokyo Univ. Education*, I, p. 57, 1952; Morimoto in *Jour. Jap. Bot.* XXVIII, p. 315, 1953).

Hab. III. On *Buxus microphylla* Sieb. et Zucc. var. *japonica* Rehd. et Wilson (*Asama-tsuge*). Yakushima Isl.: Ishidzuka~Hananoego (July 31, 1954, S. Sa. & Y. H., nos. 1533~1537).

69. ***Puccinia canaliculata*** (Schw.) Lagerheim in *Tromsö Mus. Aarsh.* XVII, p. 51, 1894.

Hab. II, (III). On *Cyperus polystachyos* Rottb. (*Igagaya-tsuri*). Yakushima Isl.: Kurio (Jan. 3, 1953, S. K., no. 1511); Onoaida~Haro-mura (Aug. 5, 1954, S. Sa. & Y. H., nos. 1509 & 1510). Tanegashima Isl.: Minamitane-mura (Sept. 24, 1954, S. S., no. 1512).

70. ***Puccinia Caricis-Boottianae*** Hiratsuka, f. in Hiratsuka, f. & Shimabukuro in *Sci. Bull. Facul. Agric. Univ. Ryukyus.* I, p. 26, 1954.

Syn. *Aecidium nikkense* (Hiratsuka, f. in *Mem. Facul. Agric. Tokyo Univ. Education*, I, p. 88, 1952).

Hab. 0, I. On *Farfugium japonicum* Kitamura (*Tsuwabuki*). Yakushima Isl.: "Yakushima" (Jan. 1, 1934, K. Ide, no. 1528).

71. **Puccinia Cirsii** Lasch in Rabenhorst, Fung. Eur. no. 89, 1859.

Hab. II, III. On *Cirsium yakushimense* Masamune (*Yakushima-azami*). Yakushima Isl.: Hananoego~Miyanooura-dake (Aug. 1, 1954, S. Sa. & Y. H., no. 1539); Ishidzuka~Hananoego (July 31, 1954, S. Sa. & Y. H., no. 1538).

72. **Puccinia congesta** Berkeley et Broome in Jour. Linn. Soc. XI, p. 91, 1875. (Hiratsuka, f. in Jour. Jap. Bot. XIII, p. 588, 1937; Mem. Facul. Agric. Tokyo Univ. Education, I, p. 60, 1952; Morimoto in Jour. Jap. Bot. XXVIII, p. 315, 1953).

Syn. *Puccinia Solmsii* Hennings in Saccardo, Syll. Fung. XIV, p. 357, 1899. (Hiratsuka, f. in Jour. Jap. Bot. XII, p. 268, 1936).

Hab. III. On *AmpelYGONUM umbellatum* Masamune (*Tsurusoba*). Yakushima Isl.: Isso (Aug. 5, 1951, K. T. & S. K., no. 1559); Onoaida (Aug. 3, 1954, S. Sa. & Y. H., no. 1560); Nakama~Kurio (Aug. 3, 1954, S. Sa. & Y. H., no. 1562); Kurio~Okawa (Aug. 4, 1954, S. Sa. & Y. H., no. 1563); Onoaida~Haro-mura (Aug. 5, 1954, S. Sa. & Y. H., no. 1564); Miyanooura (Sept. 17, 1954, S. S., no. 1565); "Yakushima" (Dec. 31, 1933, K. Ide, no. 1566). Tanegashima Isl.: Nshinoomote-machi (Sept. 21, 1954, S. S., no. 1567).

73. **Puccinia Convolvuli** Castagne, Observ. Fl. Ured. I, p. 16, 1842. (Morimoto in Jour. Jap. Bot. XXVIII, p. 314, 1953).

Hab. (0, I), II, III. On *Calystegia Soldanella* R. Br. (*Hamaendo*). Yakushima Isl.: Anbo (June 7, 1951, Y. M., no. 1552). Tanegashima Isl.: Nishinoomote-machi (Sept. 25, 1954, S. S., no. 1553).

74. **Puccinia Crepidis-japonicae** Dietel in Ann. Myc. VI, p. 266, 1908. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 62, 1952).

Hab. II, III. On *Youngia japonica* DC. (*Oni-tabirako*). Yakushima Isl.: Onoaida (Sept. 14, 1954, S. S., no. 1529); Nakama~Kurio (Aug. 3, 1954, S. Sa. & Y. H., no. 1530); Onoaida~Haro-mura (Aug. 5, 1954, S. Sa. & Y. H., no. 1531). Tanegashima Isl.: Nishinoomote-machi (Sept. 22, 1954, S. S., no. 1532).

75. **Puccinia Elytrariae** Hennings in Hedwigia, XXXV, p. 320, 1895.

Hab. III. On *Justicia procumbens* L. var. *leucantha* Honda

(*Kitsunenomago*). Yakushima Isl.: Onoaida (Aug. 3, 1954, S. Sa. & Y. H., nos. 1504 & 1505). Tanegashima Isl.: Nishinoomote-machi (Sept. 15, 1954, S. S., no. 1508).

76. ***Puccinia ferruginea*** Léveillé apud Vaillant, Voyage de la Bonite, Fungi, p. 204 & pl. 140, fig. 5, 1839/46. (Morimoto in Jour. Jap. Bot. XXXVIII, p. 315, 1953).

Hab. III. On *Smilax China* L. (*Sarutori-ibara*). Yakushima Isl.: Anbo (Sept. 5, 1954, S. S., no. 2002); Onoaida~Kojima (Aug. 3, 1954, S. Sa. & Y. H., nos. 2003 & 2004).

77. ***Puccinia ferruginosa*** Sydow, Monogr. Ured. I, p. 13, 1902.

Hab. III. On *Artemisia dubia* Wall. (*Yomogi*). Yakushima Isl.: Nakama~Kurio (Aug. 3, 1954, S. Sa. & Y. H., nos. 1883 & 1884).

78. ***Puccinia flavipes*** Sydow in Sydow & Butler in Ann. Myc. V, p. 497, 1907.

Hab. II, (III). On *Fimbristylis annua* Roem. et Schult. (*Ten-tsuki*). Tanegashima Isl.: Nishinoomote-machi (Sept. 20, 1954, S. S., no. 1887).

79. ***Puccinia Hemerocallidis*** Thümen in Bull. Soc. Imp. Nat. Moscou, LV, p. 81, 1880. (Morimoto in Jour. Jap. Bot. XXVIII, p. 315, 1953).

Hab. II, III. On *Hemerocallis longituba* Miq. (*No-kwanzo*). Yakushima Isl.: Anbo (Sept. 5, 1954, S. S., no. 1996); Onoaida~Haro-mura (Aug. 5, 1954, S. Sa. & Y. H., nos. 1993 & 1994). Tanegashima Isl.: Minamitane-mura (Sept. 23, 1954, S. S., no. 2034).

80. ***Puccinia Kyllingiae-brevifoliae*** Miura ex Ito & Homma in Transact. Sapporo Nat. Hist. Soc. XV, p. 128, 1938.

Hab. II, (III). On *Kyllingia brevifolia* Rottb. (*Hime-kugu*). Yakushima Isl.: Anbo (June 7, 1951, Y. M., no. 1997).

81. ***Puccinia Lactucae-debilis*** Dietel in Ann. Myc. VI, p. 225, 1908.

Hab. (0, I), II, III. On *Ixeris dentata* Nakai (*Nigana*). Yakushima Isl.: Kosugidani (Aug. 7, 1951, K. T. & S. K., no. 1998); Onoaida~Kojima (Aug. 3, 1954, S. Sa. & Y. H., no. 1999).

(0, I), II, III. On *Ixeris dentata* Nakai var. *alpicola* Ohwi (*Takane-nigana*). Yakushima Isl.: Hananoegc~Miyanooura-dake (Aug. 1, 1954, S. Sa. & Y. H., no. 2001).

(0, I), II, III. On *Ixeria stolonifera* A. Gray (*Hime-jishibari*). Tanegashima Isl.: Minamitane-mura (Sept. 23, 1954, S. S., no. 2000).

82. **Puccinia Lactucae-denticulatae** Dietel in Bot. Jahrb. XXXVII, p. 103, 1905.

Hab. II, III. On *Paraixeris denticulata* Nakai (*Yakushiso*). Yakushima Isl.: Onoaida~Haro-mura (Aug. 5, 1954, S. Sa. & Y. H., no. 1941).

83. **Puccinia Metanarthecii** Patouillard in Rev. Myc. (1886), p. 80, 1886.

Hab. II, III. On *Metanarthecium luteo-viride* Maxim. var. *nutans* Masam. (*Yakushima-nogiran*). Yakushima Isl.: Hana-noego~Miyanoura-dake (Aug. 1, 1954, S. Sa. & Y. H., nos. 1890 & 1891).

84. **Puccinia Miscanthi** Miura, Flora of Manchuria & E. Mongolia, III, p. 302 & pl. IV, fig. B, 1928. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 73, 1952).

Hab. II, III. On *Miscanthus sinensis* Anders. (*Susuki*). Yakushima Isl.: Anbo (July 30, 1954, S. Sa. & Y. H., no. 1892); Kosugidani (Jan. 1, 1953, S. K., no. 1893; Aug. 7, 1951, K. T. & S. K., no. 1895; Sept. 8 & 10, 1954, S. S., nos. 1896 & 1897); Ishidzuka~Hana-noego (July 31, 1954, S. Sa. & Y. H., no. 1898).

85. **Puccinia Miyoshiana** Dietel in Bot. Jahrb. XXVII, p. 569 & pl. VII, figs. 16 & 17, 1899.

Hab. II, (III). On *Ecceiopus cotulifer* Camus (*Abura-susuki*). Tanegashima Isl.: Nishinoomote-machi (Sept. 27, 1954, S. S., no. 1881).

86. **Puccinia Nanbuana** Hennings in Hedwigia, XL, p. (26), 1901.

Hab. II, III. On *Angelica shikokiana* Mak. (*Inu-toki*). Yakushima Isl.: Kosugidani (Aug. 8, 1951, K. T. & S. K., no. 1885; Sept. 8, 1954, S. S., no. 1886); Kosugidani~Hananoego (June 2, 1951, Y. M., no. 1889).

87. **Puccinia Nishidana** Hennings in Hedwigia, XL, p. (26), 1901. (Morimoto in Jour. Jap. Bot. XXVIII, p. 315, 1953).

Hab. II, III. On *Cirsium maritimum* Mak. (*Hama-azami*). Yakushima Isl.: Kurio (June 4, 1951, Y. M., no. 1940).

88. **Puccinia oahuensis** Ellis et Everhart in Bull. Torrey Bot. Club, XXII, p. 425, 1895.

Hab. II, (III). On *Digitaria violascens* Link (*Akino-mehi-shiba*). Yakushima Isl.: Onoaida~Haro-mura (Aug. 5, 1954, S. Sa. & Y. H., no. 2343).

89. **Puccinia Oenanthes-stoloniferae** Ito ex Tranzschel, *Conspect. Ured. UISS*, p. 299, 1939.
 Hab. II, (III). On *Oenanthе javanica* DC. (*Seri*). Yakushima Isl.: Miyanoura (Aug. 5, 1951, K. T. & S. K., no. 1942).
90. **Puccinia Patriniae** Hennings in *Bot. Jahrb.* XXVIII, p. 261, 1900. (Hiratsuka, f. in *Mem. Facul. Agric. Tokyo Univ. Education*, I, p. 77, 1952; Morimoto in *Jour. Jap. Bot.* XXVIII, p. 314, 1953).
 Hab. III. On *Patrinia villosa* Juss. (*Otokoheshi*). Yakushima Isl.: Kosugidani (June 1, 1951, Y. M., no. 1944); Miyanoura (Sept. 17, 1954, S. S., no. 1943).
91. **Puccinia polliniicola** Sydow in Sydow & Petrak in *Ann. Myc.* XXIX, p. 156, 1931. (Cummins in *Uredineana*, IV, p. 41 & fig. 27, 1953).
 Hab. II, (III). On *Microstegium vimineum* A. Camus (*Himeashiboso*). Yakushima Isl.: Miyanoura (Oct., 1949, S. K., no. 2344).
92. **Puccinia Polygoni-amphibii** Persoon, *Syn. Fung.* p. 227, 1801.
 Hab. II, III. On *Persicaria Thunbergii* Gross. (*Mizo-soba*). Yakushima Isl.: Kosugidani~Anbo (Aug. 2, 1954, S. Sa. & Y. H., no. 1959); Kosugidani (Sept. 8, 1954, S. S., no. 1960; Aug. 2, 1954, S. Sa. & Y. H., no. 1958).
 II, III. On *Tovara filiformis* Nakai (*Midzuhiki*). Yakushima Isl.: Kosugidani (Sept. 8, 1954, S. S., no. 1960).
93. **Puccinia pusilla** Sydow in Sydow & Butler in *Ann. Myc.* IV, p. 435, 1906.
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 Hab. II, (III). On *Andropogon micranthus* Kunth. (*Hime-aburasusuki*). Yakushima Isl.: Funayuki (Oct. 17, 1949, S. K., no. 1945).
94. **Puccinia rufipes** Dietel in *Bot. Jahrb.* XXXII, p. 48, 1902. (Morimoto in *Jour. Jap. Bot.* XXVIII, p. 315, 1953).
 Hab. II, III. On *Imperata cylindrica* Beauv. var. *Koeringii* Durand et Schinz. (*Chigaya*). Yakushima Isl.: Anbo~Onoaida (Aug. 3, 1954, S. Sa. & Y. H., no. 1950). Tanegashima Isl.: Minamitane-mura (Sept. 23, 1954, S. S., no. 1951).
95. **Puccinia Scleriae** (Paz.) Arthur in *Mycologia*, IX, p. 75, 1917.

Hab. II, III. On *Scleria Doederleiniana* Böckl. (*O-shinjyugaya*). Yakushima Isl.: Onoaida~Haro-mura (Aug. 5, 1954, S. S. & Y. H., nos. 1947 & 1948).

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Hab. II, III. On *Smilax China* L. (*Sarutori-ibara*). Yakushima Isl.: "Yakushima" (K. I.).

97. ***Puccinia variiformis*** Patouillard in Jour. de Bot. (1890), p. 57, 1890. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 83, 1952; Morimoto in Jour. Jap. Bot. XXVIII, p. 314, 1953).

Hab. III. On *Hoya carnososa* R. Br. (*Sakura-ran*). Yakushima Isl.: Haro-mura (June 5, 1951, Y. M., no. 1946).

98. ***Puccinia Wattiana*** Barclay in Jour. Asiatic Soc. Bengal, LIX, pt. 2, p. 109, 1890.

Hab. III. On *Clematis Meyeniana* Walp. (*Yanbaru-senninso*). Tanegashima Isl.: Minamitane-mura (Sept. 23, 1954, S. S., no. 1955).

99. ***Puccinia Zoysiae*** Dietel in Bot. Jahrb. XXXII, p. 48, 1902.

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Hab. On *Lysimachia japonica* Thunb. (*Konasubi*). Yakushima Isl.: Miyanoura (Sept. 17, 1954, S. S., no. 1523).

101. ***Aecidium Machili*** Hennings in Hedwigia, XLI, p. (21), 1902. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 87, 1952; Morimoto in Jour. Jap. Bot. XXVIII, p. 316, 1953).

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On *Machilus Thunbergii* Sieb. et Zucc. (*Tabu-no-ki*). Yakushima Isl.: Anbo (July 30, 1954, S. Sa. & Y. H., nos. 1514 & 1515); Kurió~Okawa (Aug. 4, 1954, S. Sa. & Y. H., nos. 1513 & 1516); Kosugidani (Sept. 7, 1954, S. S., no. 1524).

102. ***Aecidium Mori*** Barclay in Jour. Asiatic Soc. Bengal, IX, pt. 2, p. 226, 1891.

Hab. On *Morus australis* Poir. (*Shima-guwa*). Yakushima Isl.: Miyanoura (Sept. 17, 1954, S. S., no. 1522).

103. ***Aecidium Rraphiolepidis*** Sydow in Ann. Myc. XX, p. 61, 1922. (Hiratsuka, f. in Jour. Jap. Bot. XV, p. 626, 1939; Mem. Facul. Agric. Tokyo Univ. Education, I, p. 89, 1952; Morimoto in Jour. Jap. Bot. XXVIII, p. 315, 1953).

Hab. On *Rhaphiolepis umbellata* Mak. (*Hama-mokukoku*). Yakushima Isl.: "Yakushima" (Jan. 2, 1934 & July 18, 1930, K. Ide, nos. 2338 & 2339).

104. ***Aecidium satsumense*** Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 89, 1952.

Hab. On *Arisaema ringens* Schott. var. *praecox* Engl. (*Musa-shiabumi*). Tanegashima Isl.: Nakatane-mura (May 3, 1940, S. Itoga, no. 1518).

105. ***Uredo Dianellae*** Dietel in Hedwigia, XXXVII, p. 213, 1898. (Hiratsuka, f. in Mem. Facul. Agric. Tokyo Univ. Education, I, p. 90, 1952; Morimoto in Jour. Jap. Bot. XXVIII, p. 315, 1953).

Hab. On *Dianella ensifolia* Red. (*Kikyoran*). Yakushima Isl.: Kurio (June 4, 1951, Y. M., no. 1503); Onoaida~Kojima (Aug. 3, 1954, S. Sa. & Y. H., no. 1499); Kurio~Okawa (Aug. 4, 1954, S. Sa. & Y. H., nos. 1500 & 1502); Onoaida~Haro-mura (Aug. 5, 1954, S. Sa. & Y. H., no. 1501).

106. ***Uredo Horikawai*** Y. Morimoto in Jour. Jap. Bot. XXVIII, p. 316, 1953.

Hab. On *Diospyros nipponica* Nakai (*Tokiwagaki*). Yakushima Isl.: Haro-mura (Y. M., type!).

107. ***Uredo Panici-plicati*** Sawada in Jour. Taihoku Soc. Agric. Forestr. VII, p. 42, 1943 (nom. seminud.); ex Ito & Murayama in Transact. Sapporo Nat. Hist. Soc. XVII, p. 170, 1943.

Hab. On *Setaria palmifolia* Stapf (*Sasakibi*). Yakushima Isl.: Onoaida (Aug. 3, 1954, S. Sa. & Y. H., nos. 1496~1498).

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Hab. On *Paspalum scrobiculatum* L. var. *orbiculare* Hack. (*Sudzume-no-kobie*). Yakushima Isl.: Kosugidani (Aug. 7, 1951, K. T. & S. K., no. 1520).

109. *Uredo polygalaeicola* Hiratsuka, f. in Bot. Mag. Tokyo, LVI, p. 379, 1942.

Hab. On *Polygala japonica* Houtt. (*Hime-hagi*). Yakushima Isl.: Onoaida (Aug. 3, 1954, S. Sa. & Y. H., no. 1520).

110. *Uredo yakushimensis* Y. Morimoto in Jour. Jap. Bot. XXVIII, p. 315, 1953.

Hab. On *Psychotria serpens* L. (*Shiratamakadzura*). Yakushima Isl.: Haro-mura (June 4, 1951, Y. M., no. 1519, *type!*).

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