HOKKAIDO UNIVERSITY

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Fungi of the Bonin Islands. V.

By

Seiya ITO and Sanshi IMAI

(伊藤誠哉・今井三子)

1. *Polyporus nitidulus* BERK. et CURT.

Proceed. Amer. Acad. IV, 122, 1860—SACC. Syll. Fung. VI, 112, 1888.

Pileus imbricated multiplex, laterally connate, sessile, dimidiate or reniform, fleshy-corky, hard and rigid when dry, convex or applanate, 2–4 × 1.2–2.5 × 0.4–0.8 cm., surface cinnamon-buff, with darker coloured zones, concentrically furrowed, subglabrous, radially rugulose, not even, margin acute, thin and inflexed when dry, entire or undulate; context light-buff, thin, about 1–2 mm. thick at the base; tubes brownish when dry, 2–4 mm. long at the base, slender; mouth minute, angular, regular, even or slightly uneven, 5–7 per mm. when dry, edge thin, brownish when dry; spores globose, subglobose or ovate, smooth, hayline, 6 × 5 or 5 μ in diam.; cystidia none.

Hab. On dead wood. Chichishima: Ôgimura—Renjudadi (Nov. 9, 1936); Fukurozawamura—Kobikidani (Nov. 15, 1936).

Distr. Endemic.

Jap. name. *Fukiirotake* (n. n.).

2. *Polyporus Hinoi* S. ITO et IMAI, sp. nov.

Pileo saepe imbricato, usque ad 6 × 10 × 2.5 cm. lato, fulvo vel subatro, velutino vel substrigoso-velutino, glabrescente, scabroso, azonato vel zonato, margine crasso obtuso, carne 5–10 mm. crassa, badia, durescente; tubulo 5–15 mm. longo, concolore, substratoso; poris angularibus unaequalibusque, circ. 4 per mm., concoloribus, dein nigrescentibus, disepimente sublaceratescentibus; sporis ellipsoideis, fulvis, laevibus, circa 4 × 3 μ; cystidiis copiosis, dacryoideis vel ventricosis, fulvis.

Hab. On dead wood in woods. Chichishima: Ôgimura—Renjudani (Nov. 9, 1936).

Distr. Endemic.

Jap. name. *Kaneo-take* (n. n.)

Trans. Sapporo Nat. Hist. Soc., Vol. XVI, Pt. 3, 1940.

3. *Polyporus Rhipidium* BERK.

form. ***pusillus*** (LÉV.) S. ITO et IMAI, comb. nov.

Gloeoporus pusillus LÉV. Ann. Sci. Nat. 3 sér. II, 195, 1844—SACC. Syll. Fung. VI, 404, 1888.

? Favolus Rhipidium f. *minor* P. HENN. in ENGLER Bot. Jahrb. XVIII, Beibl. **44**, 32, 1894, nom. nud.

Polyporus diminutus MASS. Journ. Bot. XXXIV, 153, pl. 357, f. 17-18, 1896—SACC. Syll. Fung. XIV, 171, 1899.

Polyporus pusillus LLOYD, Myc. Writ. IV, Letter **61**, 6, 1916; Ibid. VII, 1238, 1924.

Polyporus Rhipidium BERK. var. *pusillus* KOBAYASI, Bull. Biogeogr. Soc. Japan, VII, 3, pl. 2, 1937.

Hab. On dead logs or branches of various trees. Chichishima: Ôgimura—Renjudani (Nov. 7, 9, 1936); Takedabokujô (Nov. 5, 1936); Asahiyama (Nov. 12, 1936). Hahashima: Okimura—Kuwanokiyama (Nov. 18, 1936).

Distr. Widely distributed in tropics.

Jap. name. *Hinano-utiwa* (KOBAYASI).

4. *Polyporus Schimae* S. ITO et IMAI, sp. nov.

Pileo imbricato, 1.5–4 × 1–3 × 0.3–0.7 cm., sessili, applanato, dimidiato, margine laevi vel undulato, badio vel atro-brunneo, zonis atro-brunneis sulcatis zonato, velutino vel substrigoso-velutino, margine subacuto subtus velutino sterilique, carne castaneo-brunnea, 3-4 mm. crassa, submolli; tubulis 2-3 mm. longis, "tawny-olive", dissepimente concoloribus; poris angularis, atro-brunneis, 4-5 per mm., acie dentatis vel laceratis; sporis flavidulis, ellipsoideis vel subovatis, laevibus, copiosis, 4-5 × 2.5-3 μ; cystidiis nullis.

Hab. On dead branches of *Schima boninensis* NAKAI *(Munin-himetsubaki)*. Chichishima: Ôgimura—Renjudani (Feb. 26, 1937, M. OKABE).

Distr. Endemic.

Jap. name. *Himetsubaki-take* (n. n.).

5. *Polystictus flabelliformis* (KL.) FR.

Nov. Symb. Myc. Fasc. I, 58, 1851—SACC. Syll. Fung. VI, 216, 1888—LLOYD, Syn. Polyst. 55, f. 344-345, 1910; Syn. Stipit. Polyp. 143, 1911.

Polyporus flabelliformis KL. Linnaea, VIII, 483, 1833—FR. Epicr. Myc. 444, 1838.

Hab. On wood of various trees. Chichishima: Ôgimura—Renjudani (Nov. 9, 1936). Hahashima: (Oct. 1935, M. OKABE); Okimura—Kuwanokiyama (Nov. 18, 1936); Kitamura—Sekimonzan (Nov. 20, 1936).

Distr. Common in tropics.

Jap. name. *Uchiwa-take*.

6. *Polystictus grammocephalus* (BERK.) S. ITO et IMAI, comb. nov.

Polyporus grammocephalus Berk. in HOOK. London Journ. Bot. I, 148, 1842—FR. Nov. Symb.

Myc. Fasc. I, 36, 1851—SACC. Syll. Fung. VI, 92, 1888—THEIS. Ann. Myc. IX, 156, 1911—LLOYD, Syn. Stipit. Polyp. 136, f. 437, 1912—CLELAND, Journ. Proceed. Royal Soc. N. S. Wales, LI, 482, 1918—RICK, Broteria, IV, 184, 1935.

Hab. On dead wood. Chichishima: Ômura (Oct. 1936, M. OKABE); Fukurazawamura—Kobikidani (Nov. 15, 1936). Hahashima: Okimura—Kuwanokiyama (Nov. 18, 1936); Kitamura—Sekimonzan (Nov. 20, 1936).

Distr. Widely distributed in tropical regions.

Jap. name. *Nettai-hauchiwa-take.* (n. n.)

7. ***Polystictus ochrotinctus*** (BERK. et CURT.) SACC.

Syll. Fung. VI, 225, 1888.

Polyporus ochrotinctus BERK. et CURT. Proceed. Amer. Acad. IV, 122, 1860.

Pileus gregarious or subcaespitose or subimbricated, 2–6 × 2–5 cm. broad, with a lateral stipe, orbicular, dimidiate, subreniform or flabelliform, entire or often lobed on the margin, surface variable in colour: cream-buff with cinnamon-buff or clay or mikado-brown coloured concentric zones on the paler specimens, but on darker specimens hazel or russet or mars-brown colour and usually with narrow concentric furrows, entirely glabrous, shining, thin, 1–3 mm. thick next the stipe, context white, suberous-fleshy; tubes 1–1.5 mm. long, darker; pores white, whitish or brownish, round, small, rather even, 5–6 per a mm.; stipe lateral, 5–10 mm. long, 2.5–6 mm. thick, concolorous, entirely glabrous, shining; spores not seen.

Hab. On wood of various trees. Chichishima: Ômura (1936, M. OKABE); Hahashima: Okimura—Kuwanokiyama (Nov. 18, 1936).

Distr. Probably in tropical and subtropical regions.

Jap. name. *Bisketto-take* (YASUDA).

8. ***Polystictus sanguineus*** [L.] FR.

Nov. Symb. Myc. Fasc. I, 59, 1851—SACC. Syll. Fung. VI, 229, 1888—OVERH. Ann. Mo. Bot. Gard. I, 115, 1914—LOWE, Bull. N. Y. State Coll. Forest, VI, 55, 1934.

Boletus sanguineus L. Sp. Pl. ed. 2, 1646, 1762.

Polyporus sanguineus G. MEYER, Pl. Esseg. 304, 1918.

Polyporus sanguineus FR. Syst. Myc. I, 371, 1821; Epicr. Myc. 444, 1838.

Pycnoporus sanguineus MURRILL, Bull. Torrey Bot. Club, XXXI, 421, 1904; North Amer. Fl. IX, 71, 1907.

Hab. On trunks of *Pandanus boninensis* WARB. *(Takonoki).* Chichishima: Ômura (Nov. 7, 1936, M. OKABE). Hahashima: Okimura (Nov. 18, 1936).

On tree trunks. Chichishima: Asahiyama (Nov. 12, 1936).

Distr. Common in tropics.

Jap. name. *Hiirotake.*

9. *Polystictus vinosus* (BERK.) SACC.

Syll. Fung. VI, 273, 1888—BOSE, Journ. Dept. Sci. Calcutta Univ. XI, 5, pl. 2, f. 5, 1934.

Polystictus vinosus BERK. Ann. Mag. Nat. Hist. 2 ser. IX, 195, 1852—LLOYD, Syn. Apus Polyp. 342, f. 679, 1915.

Nigroporus vinosus MURRILL, Bull. Torrey Bot. Club, XXXII, 361, 1905; North Amer. Fl. IX, 85, 1908.

Hab. On dead wood. Chichishima: Takeda-bokujô (Nov. 5, 1936). Hahashima: Kitamura—Sekimonzan (Nov. 20, 1936).

Distr. Rather common in tropical and subtropical regions, and Japan proper.

Jap. name. *Budôtake.*

10. *Hexagona papyraceo-resupinata* S. ITO et IMAI, sp. nov.

Resupinata, 1–25 × 1–10 mm., primo orbicularis dein longitudinaliter expansa, tenuissima, papyracea, 0.5 mm. vel infra crassa, "pale-pinkish-buff" vel "pinkish-buff", margine angustissimo sterili saepe deflexo albo dein concolore; poris angularibus, integris, 0.25–0.75 mm. diam., dissepimentis tenuibus, albo-marginatis; sporis ignotis.

Hab. On fallen dead branches. Chichishima: Fukurozawamura—Kobiki-dani (Nov. 15, 1936).

Distr. Endemic.

Jap. name. *Kinu-furui-take.*

11. *Hexagona tenuis* (HOOK.) Fr.

Epicr. Myc. 498, 1838—LLOYD, Syn. Hexagona, 23, f. 303, 304, 306, 1910—BIJL, South Afr. Journ. XVIII, 290, 1920.

Boletus reticulatus HOOK. in KUNTH, Syn. Pl. I, 9, 1822, teste FR.

Boletus tenuis HOOK. Ibid. I, 10, 1822.

Polyporus bivalvis PERS. apud GAUD. Voy. Freyc. Bot. 168, 1826, teste MURRILL.

Polyporus polygrammus MONT. Ann. Sci. Nat. 2 sér. VIII, 365, 1837.

Hexagona orbiculata FR. Fung. Guin, f. 9, 1837, teste MURRILL.

Hexagona cervino-plumbea JUNGH. Crypt. Javae, 61, pl. 15, f. 32, 1838, teste MURRILL.

Hexagona polygramma FR. Epicr. Myc. 497, 1838—LLOYD, Syn. Hexagona, 25, f. 308, 1910.

Hexagona cingulata LÉV. Ann. Sci. Nat. 3 sér. II, 200, 1844.

Hexagona similis BERK. in HOOK. London Journ. Bot. V, 4, 1846.

Hexagona Thwaitesii BERK. Proceed. Amer. Acad. IV, 122, 1860.

Hexagona favoloides PK. Bull. Torrey Bot. Club, X, 73, 1883.

Hexagona tenuis var. *subtenuis* BERK. in CKE. Grevillea XIX, 103, 1891.

Favolus tenuis MURRILL, Bull. Torrey Bot. Club, XXXII, 100, 1905; North Amer. Fl. IX, 83, 1908.

Hab. On dead wood of various trees. Chichishima: Takeda-bokujô (Nov. 5, 1936); Asahiyama (Nov. 12, 1936); Ômura (April 14, 1936, M. OKABE; Nov. 14, 1936); Ôgimura—Renjudani (Nov. 7, 1936). Hahashima: Okimura—

Kuwanokiyama (Nov. 18, 1936).

Distr. Tropical regions.

Jap. name. *Furuitake.*

12. *Laschia pezizaeformis* BERK. et CURT.

Proceed. Amer. Acad. IV, 123, 1860—SACC. Syll. Fung. VI, 406, 1888—KOBAYASI, Bull. Biogeogr. Soc. Japan, VII, 2, pl. 1, f. 1–2, 1937.

Hab. On dead petioles and rachis of *Livistona boninensis* NAKAI *(Ogasawara-biro)* and *Alsophila Mertensiana* KUNZE *(Maruhashi).* Chichishima: Asahiyama (Nov. 12, 1936); Fukurozawamura—Kobikidani (Nov. 15, 1936). Hahashima: Okimura (Nov. 19, 1936).

Distr. Bonin Islands, Venezuela.

Jap. name. *Enashi-rassi-take* (KOBAYASI).

13. *Lenzites saepiaria* [WULF.] FR.

Epicr. Myc. 407, 1838; Hymen. Eur. 494, 1874—BERK. Outl. Brit. Fung. 228, 1860—GILL. Hymen. Fr. 376, 1874—KARST. Myc. Fenn. III, 239, 1876—WINT. Die Pilze, I, 491, 1884—SACC. Syll. Fung. V, 639, 1887—MASS. Brit. Fung. Fl. II, 305, 1892—OVERH. Ann. Mo. Bot. Gard. I, 149, 1914—REA, Brit. Basid. 613, 1922—BOSE, Journ. Dept. Sci. IX, 40, pl. 4, f. 10, 1928—SHOPE, Ann. Mo. Bot. Gard. XVIII, 391, pl. 37, f. 1–2, 1931—WULF, Univ. Iowa Stud. XIV, 28, f. 28, 1931—LOWE, Bull. N. Y. State Coll. Forest, VI, 108, 1934.

Agaricus hirsutus SCHAEFF. Fung. Bavar. IV, Ind. 33, Pl. 76, 1774.

Agaricus saepiarius WULF. in JACQ. Coll. Bot. I, 347, 1786.

Agaricus boletiformis SOW. Engl. Fung. pl. 418, 1803.

Daedalea sepiaria FR. Obs. Myc. I, 105, 1915; Syst. Myc. I, 333, 1821.

Lenzites rhabarbarina BERK. et CURT. Ann. Mag. Nat. Hist. 2 ser. XII, 428, 1858, teste MURRILL.

Gloeophyllum saepiarium KARST. Bidr. Kanned. Finl. Nat. Folk, XXXVII, 79, 1882—SCHROET. Pilze Schles. I, 494, 1888.

Sasia hirsuta MURRILL, Journ. Myc. IX, 88, 1903; Bull. Torrey Bot. Club, XXX, 603, 1904.

Gloeophyllum hirsutum MURRILL, Ibid. IX, 94, 1903; North Amer. Fl. IX, 130, 1908.

Lenzites hirsuta SACC. Fl. Ital. Crypt., Hymen. 509, 1915.

Hab. On wood of *Pinus luchuensis* MAYR. *(Liukiu-matsu).* Chichishima: Sakaeura (Nov. 5, 1936).

Distr. Cosmopolitan.

Jap. name. *Ki-kaigaratake.*

14. *Fomes rimosus* BERK.

apud CKE. Grevillea, XIV, 18, 1885; Handb. Austr. Fungi, 131, 1892—SACC. Syll. Fung. VI, 181, 1889—OVERH. Ann. Mo. Bot. Gard. I, 133, 1914; Technical Bull. Penn. State Coll. School Agr. No. 316, p. 13, 1935—NEUMAN, Polyp. Wisc. 82, 1914—LLOYD, Syn. Fomes, 248, 1915—CLEL. & CHEEL, Journ. Proceed. Royal Soc. N. S. Wales, LI, 515, 1918—WOLF, Univ. Iowa Stud. XIV, 40, f. 93, 1931—LOWE, Bull. N. Y. State Coll. Forest, VI, 122, 1934.

Polyporus rimosus BERK.in HOOK. London Journ. Bot. IV, 54, 1845—FR. Nov. Sym. Myc. 50, 1851.

Pyropolyporus Robiniae MURRILL, Bull. Torrey Bot. Club, XXX, 114, 1903; North Amer. Fl. IX, 105, 1908.

Hab. On dead tree trunks of *Morus boninensis* KOIDZ. *(Ogasawara-guwa).* Hahashima: Okimura—Kuwanokiyama (Nov. 18, 1936); Kitamura—Sekimonzan (Nov. 20, 1936). Chichishima: Takeda-bokujô (Nov. 5, 1936).

Distr. Australia, North America, South America, Bonin Islands, Samoa, New Caledonia, Ceylon, India, South Africa.

Jap. name. *Ô-meshimakobu* (n. n.).

15. *Fomes Terminaliae* S. ITO et IMAI, sp. nov.

Pileo dimidiato, sessili, applanato, tenui, subumbilicato, 2–12 × 1–6 × 0.4–1.5 cm., subvelutino-tomentoso, zonato, sulcato, demum subglabrescente encrustatoque, margine "tawny", basi obscuriore, margine crassiusculo obtusoque, sterili; carne "ochraceous-tawny" vel "tawny", dura, lignosa, homogenea, 3–5 mm. crassa; tubulo usque ad 1 cm. longo, concolori; poris circularibus, regularibus, minutis, 4–5 per mm., subconcoloribus; sporis oblongis, hyalinis, laevibus, 5–6 × 3–4 μ; cystidiis tenuibus, acuminatis, fulvis.

Hab. On dead or living wood of *Terminalia catappa* L. *(Momo-tamana).* Chichishima: Ômura (Nov. 3, 16, 1936). of *Calyophyllum Inophyllum* L. *(Teriha-boku).* Chichishima: Ômura (Nov. 3, 1936). of *Psychotria homalosperma* A. GRAY *(Ogasawara-bochôji).* Chichishima: Takeda-bokujô (Jan. 15, 1937, M. OKABE).

Distr. Endemic.

Jap. name. *Nagami-no-shima-saru-no-koshikake* (n. n.).

16. *Fomes ulmarius* [SOW.] GILL.

Hymen. Fr. 683, cum icone, 1874—SACC. Syll. Fung. VI, 166, 1888; Fl. Ital. Crypt., Hymen. 997, 1916—MASS. Brit. Fung. Fl. I, 218, 1892—LLOYD, Syn. Fomes, 228, 1915—REA, Brit. Basid. 595, 1922.

Boletus ulmarius SOW. Engl. Fung. pl. 88, 1797.

Polyporus ulmarius FR. Syst. Myc. I, 365, 1821; Epicr. Myc. 469, 1838; Hymen. Eur. 562, 1874—BERK. Outl. Brit. Fung. 246, pl. 16, f. 5, 1860.

Placodes ulmarius QUÉL. Ench. Fung. 172, 1886.

Hab. On tree trunks of *Casuarina equisetiforia* FROST. *(Meriken-matsu).* Chichishima: Ômura (April 14, 1936, M. OKABE). On wood. Asahiyama (Nov. 12, 1936).

Distr. Europe, North America, India, Japan.

Jap. name. *Ô-shiro-sarunokoshikake.*

17. *Ganoderma applanatum* (PERS. ex FR.) PAT.

Bull. Soc. Myc. Fr. V. 67, 1889—REA, Brit. Basid. 597, 1922—BOURD. et GALZ.

Hymen. Fr. I, 611, 1927—SHOPE, Ann. Mo. Bot. Gard. XVIII, 374, 1931—BRES. Icon. Myc. XXI, pl. 1012, 1932.

Boletus lipsiensis BATSCH, Elench. Fung. 183, pl. 25, f. 130, a, b, 1786.

Boletus applanatus PERS. Obs. Myc. II, 2, 1799.

Boletus formentarius β *applanatus* PERS. Syn. Fung. 536, 1801.

Polyporus applanatus WALLR. Fl. Crypt. Germ. IV, 591, 1833—FR. Epicr. Myc. 465, 1838; Hymen. Eur. 557, 1874.

Polyporus megaloma LÉV. Ann. Sci. Nat. 3 sér. V, 128, 1846.

Polyporus leucophaeus MONT. Syll. Crypt. 157, 1856.

Fomes applanatus GILL. Hymen. Fr. 686, 1874—SACC. Syll. Fung. VI, 176, 1888—LLOYD, Syn. Fomes, 263, 1915.

Fomes leucophaeus CKE. Grevillea, XIV, 18, 1885—LLOYD, Syn. Fomes, 264, 1915.

Fomes megaloma CKE. Ibid. 18, 1885.

Placodes applanatus QUÉL. Ench. Fung. 171, 1886.

Elfvingia applanata KARST. Finl. Basidsv. 334, 1889.

Phaeoporus applanatus SCHROET. Pilze Schles. I, 490, 1889.

Ganoderma leucophaeum PAT. Bull. Soc. Myc. Fr. V, 73, 1889.

Elfvingia lipsiensis MURRILL, Bull. Torrey Bot. Club, XXX, 297, 1903.

Elfvingia megaloma MURRILL, Ibid. XXX, 300, 1903.

Ganoderma lipsiensis ATKINS. Ann. Myc. VI, 189, 1908.

Hab. On tree trunks of *Celtis boninensis* KOIDZ. *(Munin-enoki)*. Hahashima: Okimura—Kuwanokiyama (Nov. 18, 1936).

On tree trunks of *Schima boninensis* NAKAI *(Munin-himetsubaki)*. Chichishima: Takeda-bokujô (Nov. 5, 1936). Otôtoshima (July 31, 1936, M. OKABE).

On tree trunks of *Sideroxylon ferrugineum* HOOK. et ARN. *(Kurotetsu)*. Hahashima: Okimura—Kuwanokiyama (Nov. 18, 1936); Kitamura—Sekimonzan (Nov. 20, 1936).

On tree trunks of various kinds. Chichishima: Ômura (Nov. 3, 1936); Asahiyama (Nov. 12, 1936). Hahashima: Okimura—Kuwanokiyama (Nov. 18, 1936).

Distr. Almost cosmopolitan.

Jap. name. *Kofukitake.*

18. *Ganoderma Boninense* PAT.

Bull. Soc. Myc. Fr. V, 72, 1889.

Ganoderma lucidum var. *Boninense* Pat. Bull. Soc. Myc. Fr. V, 72, 1889, ut syn.

Fomes lucidum f. *boninensis* SACC. Syll. Fung. VI, 157, 1889.

Hab. On trunks of *Livistona chinensis* R. BR. *(Birô)*. Chichishima: Ômura (Sept. 1936, M. OKABE). Otôtoshima (July 31, 1936, M. OKABE).

On tree trunks. Chichishima: Takeda-bokujô (Nov. 5, 1936).

Distr. Bonin Islands, Micronesia, Japan (Kiushu).

Jap. name. *Shima-mannentake.*

19. *Trametes Mulleri* BERK.

Journ. Linn. Soc., Bot. X, 320, 1869—SACC. Syll. Fung. VI, 339, 1888.

Hab. On dead wood. Chichishima: Ôgimura—Renjudani (Nov. 7, 9, 1936); Asahiyama (Nov. 12, 1936); Fukurozawamura—Kobikidani (Nov. 15, 1936).

Distr. Cuba, Australia, Philippine Islands, Bonin Islands, Brazil.

Jap. name. *Kawarake-take* (YASUDA).

20. *Helicium coralloides* (SCOP. ex FR.) S. F. GRAY

Nat. Arr. Brit. Pl. I, 652, 1821.

Hydnum coralloides SCOP. Fl. Carn. ed. 2, II, 472, 1772—SOW. Engl. Fungi, III, pl. 252, 1803.

Hydnum crispum SCOP. Ibid. II, 473, 1772.

Hydnum ramosum BULL. Champ. Fr. pl. 390, 1791.

Hydnum coralloides FR. Syst. Myc. I, 408, 1821; Epicr. Myc. 511, 1838; Hymen. Eur. 607, 1874—BERK. Outl. Brit. Fung. 259, 1860—GILL. Hymen. Fr. 724, 1874—KARST. Myc. Fenn. III, 292, 1876—SACC. Syll. Fung. VI, 446, 1888—SCHROET. Pilze Schles. I, 455, 1888—MASS. Brit. Fung. Fl. I, 156, 1892—ATKINS. Mushrooms, ed. 2, 196, f. 195, 1903 - ROLLAND, Atlas Champ. 87, f. 221, 1910—REA, Brit. Basid. 636, 1922.

Friesites coralloides KARST. Medd. Soc. Faun. Fl. Fenn. V. 27, 1879.

Dryodon coralloides QUÉL. in KARST. Hattsv. II, 92, 1882; QUÉL. Ench. Fung. 192, 1886—BOURD. & GALZ. Bull. Soc. Myc. FR. XXX, 277, 1914; Hymen. Fr. I, 442, 1927—CEJP, Monogr. Hydn. Tchec. 92, 1928.

Hab. On wood. Chichishima: Ômura (M. OKABE).

Distr. Cosmopolitan.

Jap. name. *Sango-haritake.*

21. *Boninohydnum* S. ITO et IMAI, gen. nov.

Lignicolum. Pileus sessilis, applanatus, imbricatus, carnoso-lentus; aculei subulati, basi discreti. Basidia 4-sterigmatica; sporae in cumulo olivaceae, ellipsoideae, laeves; cystidia nulla.

Typus: *Boninohydnum Pini* S. ITO et IMAI.

Etym. Bonin + Hydnum.

The present genus is closely related to *Steccherium* S. F. GRAY sensu MILLER, *Creolophus* KARST., *Climacodon* KARST. etc. But it is distinguished from these genera by the coloured spores and by lacking cystidia.

21.bis *Boninohydnum Pini* S. ITO et IMAI, sp. nov.

Imbricatum. Pileo circa 6 × 3 cm. lato, applanato, dimidiato, sessili, resente carnoso, sicco lento, albo vel flavidulo, velutino-flocculoso; carne grisea; aculeis circa 6 mm. longis, 0.5 mm. crassis, subulatis, basi discretis, subconfertis vel subdistantibus, primo "waxy-yellow", dein "old-gold", sicco brunescentibus;

cystidiis nullis; basidiis 4-sterigmaticis; sporis in cumulo "Saccardo's olive", oblongis vel ellipsoideis, laevibus, sub microscopio flavidulis, circa 5 × 2.5 μ.

Hab. On trunks of *Pinus luchuensis* MAYR. *(Liukiu-matsu)*. Chichishima: Ômura (Nov. 14, 1936).

Distr. Endemic.

Jap. name. *Ogasawara-hari-hiratake* (n. n.).

22. *Mucronella pacifica* Y. KOBAYASI

Bot. Mag. (Tokyo), LIII, 160, f. 4, pl. 2, f. below, 1939.

Hab. On dead wood in shady woods. Hahashima: Okimura—Kuwanoki-yama (Nov. 18, 1936).

Distr. Endemic.

Jap. name. *Hanabi-take* (KOBAYASI).

23. *Stereofomes palmicola* S. ITO et IMAI, sp. nov.

Effusa, usque ad 10 mm. lata. Hymenio glabro, laeve vel leviter undulato, "cream-buff" vel "pinkish-buff", margine obtuso glabroque; carne "sayal-brown" vel "verona-brown", usque ad 1 cm. vel ultra crassa, multistratosa, coriaceo-ligna. Sporis ignotis.

Hab. On stumps of *Livistona chinensis* R. BR. *(Biro)*. (Feb. 21, 1937, M. OKABE).

Distr. Endemic.

Jap. name. *Birô-man-nen-urokotake* (n. n.)

24. *Stereum obliquum* MONT. et BERK.

in BERK. in HOOK. London Journ. Bot. III, 334, 1844—SACC. Syll. Fung. VI, 558, 1888—MASS. Journ. Linn. Soc., Bot. XXVII, 170, 1890—LLOYD, Syn. Stipit. Stereum, 39, f. 562, 1913.

Hab. On dead twigs or branches. Chichishima: Fukurozawamura—Kobikidani (Nov. 15, 1936).

Distr. Brazil, Java, Philippine Islands, New Zealand, Bonin Islands.

Jap. name. *Shita-uroko-take* (n. n.)

25. *Stereum obliquulum* S. ITO et IMAI, sp. nov.

Fructificatio vulgo pleuropodia, per raro excentrica mesopodiave, gregaria. Pileo spathulato, petaloideo vel subobovato vel elongato, 5–10 mm. longo, 3–8 mm. lato, margine pleno vel undulato raro lobato, superficie sub lente villosulo, nitente, centro "mikado-brown" vel "sayal-brown" margine pallidiore, concentrice annulato, inferne pallidiore subpruinoso; carne tenuissima, margine papyracea; stipite 2–10 mm. longo, 0.5–1 mm. crasso, subconcolori, villis ochraceis velutino.

Sporis ignotis.

Hab. On dead wood. Hahashima: Okimura—Kuwanokiyama (Nov. 18, 1936).

Distr. Endemic.

Jap. name. *Shita-uroko-modoki* (n. n.).

26. *Stereum surinamense* LÉV.

Ann. Sci. Nat. 3 sér. II, 209, 1844—SACC. Syll. Fung. VI, 556, 1888—MASS. Journ. Linn. Soc., Bot. XXVII, 161, 1890—LLOYD, Syn. Stipit. Stereum, 26, f. 544, 1913—BURT, Ann. Mo. Bot. Gard. VII, 91, pl. 2, f. 4, 1920.

Stereum fulvo-nitens BERK. Ann. Mag. Nat. Hist. 2 ser. IX, 198, 1852—SACC. Syll. Fung. VI, 556, 1888—MASS. Journ. Linn. Soc., Bot. XXVII, 162, 1890.

Hab. On dead twigs. Chichishima: Ôgimura—Renjudani (Nov. 9, 1936).

Distr. Surinam, West Indies, Honduras, Dutch Guiana, Samoa, Africa, Brazil, Australia, India, Ceylon, San Domingo, Philippine Islands, Bonin Islands.

Jap. name. *Sakazuki-urokotake* (n. n.).

27. *Hymenochaete attenuata* LÉV.

Ann. Sci. Nat. 3 sér. V, 152, 1846—CKE. Grevillea, VIII, 146, 1879—SACC. Syll. Fung. VI, 591, 1888—MASS. Journ. Linn. Soc., Bot. XXVII, 98, 1890.

Stereum attenuatum LÉV. Ann. Sci. Nat. 3 sér. II, 212, 1844.

Hab. On dead wood. Chichishima: Takeda-bokujô (Nov. 5, 1936).

Distr. Java, Philippine, Australia, Malay, Japan (Honshu, Bonin Islands).

Jap. name. *Hime-ô-urokodake* (T. ITO), *Hime-urokotake* (YASUDA).

28. *Hymenochaete fomitoporioides* S. ITO et IMAI, sp. nov.

Fructificato dura, lignosa, resupinata. Hymenio glabro, laevi, "cinnamon-brown" vel "russet", margine crasso determinatoque, carne usque ad 1 mm. crassa, strato intermedio nulla, setigera; setis in parte omnino ornatis, leviter eminentis, acuminatis, 37–50 × 7–10 μ; paraphysibus coloratis circa 2 μ crassis apice pinnatididis; sporis ignotis.

Hab. On the bark of frondose wood. Chichishima: Asahiyama (Nov. 12, 1936).

Distr. Endemic.

Jap. name. *Tobi-iro-ô-urokotake* (n. n.)

29. *Hymenochaete palmicola* S. ITO et IMAI, sp. nov.

Fructificatio resupinata, late effusa, adnata, tenuissima. Hymenio "sudan-brown", "amber-brown" vel "argus-brown", demum minute rimuloso, margine

tenuiori pallidioreque; carne (60-) 100-160 (-240) μ crassa, strato intermedio nulla, strato setigero densa opaca; setis abundantibus, confertis, acuminatis, membrano crasso, 40-55 × 6-7 μ, eminentis usque ad 30 μ longis, parte omnino strati setigeri ornatis; sporis hyalinis, laevibus, ellipsoideis, 4-5 × 2-2.5 μ.

Hab. On fallen dead palm bracts. Chichishima: Asahiyama (Nov. 12, 1936).

Distr. Endemic.

Jap. name. *Yashi-no-ô-urokotake* (n. n.).

30. *Hymenochaete pertenuis* S. ITO et IMAI, sp. nov.

Fructificatio resupinata, effusa, adnata, per tenuis. Hymenio "cinnamon-brown", "Prout's brown", "russet" vel "mars-brown", sub lente velutino, margine determinato; carne 50-75 μ crassa, strato intermedio nulla, strato setigero densa et opaca; setis abundantibus et confertis, 35-65 × 7-10 μ, usque ad semilongis eminentis, acuminatis, apice vulgo flexuosis; sporis oblongis vel subellipsoideis, laevibus, hyalinis, 5 × 2.5 μ.

Hab. On dead twigs of frondose wood. Chichishima: Asahiyama (Nov. 12, 1936).

Distr. Endemic.

Jap. name. *Kami-ô-urokotake* (n. n.).

31. *Hymenochaete rubiginosa* [DICKS.] LÉV.

Ann. Sci. Nat. 3 sér. V, 151, 1846—BERK. Outl. Brit. Fung. 271, 1860—CKE. Grevillea, VIII, 145, 1880—SACC. Syll. Fung. VI, 589, 1888—MASS. Journ. Linn. Soc., Bot. XXVII, 97, 1890; Brit. Fung. Fl. I, 115, 1892—BROWN, Mycologia, VII, 1, pl. 149-151, 1915—BURT, Ann. Mo. Bot. Gard. V, 332, f. 11, pl. 17, f. 14, 1918—REA, Brit. Basid. 667, 1922—BOURD. et GALZ. Hymen. Fr. I, 390, 1927—PILAT, Hedwigia, LXX, 117, 1930.

Helvella rubiginosa DICKS. Fasc. Pl. Crypt. Brit. I, 20, 1785.

Auricularia ferruginea BULL. Champ. Fr. pl. 378, 1791—SOW. Engl. Fungi, pl. 26, 1797.

Thelephora rubiginosa SCHRAD. Spic. Fl. Germ. 185, 1794—PERS. Syn. Fung. 567, 1801; Myc. Eur. I, 120, 1822.

Thelephora rubiginosa FR. Syst. Myc. I, 436, 1821.

Stereum rubiginosum FR. Epicr. Myc. 550, 1838; Hymen. Eur. 641, 1874—SCHROET. Pilze Schles. I, 428, 1888.

Stereum ferrugineum FR. Epicr. Myc. 550, 1838; Hymen. Eur. 640, 1874.

Hymenochaete ferrugineum MASS. Journ. Linn. Soc., Bot. XXVII, 103, 1890.

Hab. On dead logs and stumps. Chichishima: Takeda-bokujô (Nov. 5, 1936); Asahiyama (Nov. 12, 1936). Hahashima: Kitamura—Sekimonzan (Nov. 20, 1936).

Distr. Europe, North and Central America, Porto Rico, Africa, Australia, Tasmania, India, Japan (Honshu, Shikoku, Kiushu, Loochu, Bonin).

Jap. name. *Yebi-ô-urokodake* (T. ITO), *Yebi-urokotake* (YASUDA).

32. *Gloeocystidium boninensis* S. ITO et IMAI, sp. nov.

Fructificatio resupinata, late effusa, usque ad 10×5 cm. lata, adnata, crassiuscula, ceraceo-carnosula, sicco fragilescens. Hymenio albida, sicco "cinnamon-buff" vel "cinnamon", inaequali, demum rimoso; carne 450–700 μ crassa, albida, paraphysibus erectis agglutinatis et basidiis atque gloeocystidiis composita; gloeocystidiis numerissimis, flexuosis, clavato-subcylindricis vel attenuato-cylindricis, flavidulis, 7–10 μ crassis; sporis hyalinis, ellipsoideis vel suboblongis, copiosis, 8–10×4–6 μ.

Hab. On decayed wood of frondose trees. Chichishima: Asahiyama (Nov. 12, 1936).

Distr. Endemic.

Jap. name. *Ogasawara-nikawa-urokotake* (n. n.).

33. *Peniophora phyllophila* MASS.

Journ. Linn. Soc., Bot. XXV, 150, 1889—SACC. Syll. Fung. IX, 239, 1891—REA, Brit. Basid. 697, 1922—BURT, Ann. Mo. Bot. Gard. XII, 241, 1925.

Hab. On bark of dead frondose trees. Chichishima: Asahiyama (Nov. 12, 1936).

Distr. Europe, North & Central America, Bonin Islands.

Jap. name. *Usu-ki-kawatake* (n. n.).

34. *Cyphella Cyatheae* S. ITO et IMAI, sp. nov.

Fructificatio gregaria, 0.5–1 mm. lata, cupulata, sessilis, tenuis, membranacea, toto flavidula. Hymenio interiore, leviter pallidiore, plano; exteriore glabro, sed sub lente subfurfuraceo; basidiis clavato-cylindraceis, 2–4-sporiferis; sporis ventricoso-ellipsoideis, laevibus, hyalinis, 7.5–10×5–6 μ; paraphysibus biformibus: clavato-cylindraceis et attenuato-clavatis.

Hab. On *Cyathea boninsimensis* COPELAND *(Hego)*. Chichishima: Ôgimura—Renjudani (Nov. 9, 1936).

Distr. Endemic.

Jap. name. *Hego-no-fûrin-take* (n. n.).

35. *Corticium boninense* S. ITO et IMAI, sp. nov.

Fructificatio effusa, per tenuis, submembranacea, adnata, non-separabilis. Hymenio albido, sicco cremescente; carne 85–150 μ crassa, gloeocystidiis nulla; sporis subovoideis vel late ellipsoideis, hyalinis, laevibus, 5–7.5×3–5 μ.

Hab. On fallen dead twigs of frondose wood. Chichishima: Ôgimura—Renjudani (Nov. 5, 1936).

Distr. Endemic.

Jap. name. *Ogasawara-kami-kôyakutake* (n. n.).

36. *Corticium Cyatheae* S. ITO et IMAI, sp. nov.

Fructificatio irregulare effusa, adnata, per tenuis. Hymenio furfuraceo, albo albidove; carne usque 30 μ crassa; texto subhymenio fere nullo; gloeocystidiis nullis; basidiis clavatis, 4-sporiferis, sterigmatis circa 8 μ longis; sporis elliptico-cylindricis, laevibus, hyalinis, 8–12 × 2.5–3 μ.

Hab. On petiole of *Cyathea boninsimensis* COPEL. *(Hego)*. Chichishima: Ôgimura—Renjudani (Nov. 9, 1936). Hahashima: Okimura—Kuwanokiyama (Nov. 18, 1936).

Distr. Endemic.

Jap. name. *Hego-no-kôyakutake.*

37. *Lloydella Okabei* S. ITO et IMAI, sp. nov.

Fructificatio coriaceo-papyracea, tenuis, lenta, resupinata, late effusa. Hymenio plano vel non-plano, "buffy-brown" vel "olive-brown", pruinoso, demum leviter rimuloso; carne 150–550 μ crassa, stratis hymenii seneci zonata, organis administris coloratis nulla; cystidiis abundantibus, longe conicis vel subfusiformibus, 25–40 × 6–10 μ, membrano crasso leviter brunneolo laeve vel asperulo, supero crasse incrusto; sporis hyalinis, laevibus, ellipsoideis, 7–8 × 5 μ.

Hab. On wood of *Ochrosia Nakaiana* KOIDZ. *(Yarôdo)*. Chichishima: Ôgimura—Renjudani (Feb. 26, 1937, M. OKABE).

Distr. Endemic.

Jap. name. *Okabe-ke-urokotake* (n. n.)

37.bis *Lloydella japonica* (YASUDA) S. ITO et IMAI, comb. nov.

Stereum japonicum YASUDA, Bot. Mag. (Tokyo), XXXIII, (189), 1919; Ibid. XXXVII, 60, cum fig. 1923.

Fructification 6.5–15 cm. broad, coriaceous-papery, thin, pliant, resupinate and widely effused and closely adnate, somewhat separable; in the herbarium hymenium cream-buff, paler (light buff) on the margin, tinged with tawny or russet on the center, even or uneven, 500–800 μ or more thick, non-zonate, composed of about 5 μ thick, yellowish and thick walled hyphae and hyaline thin walled hyphae; cystidia abundant, usually immersed in or under the hymenial layer, subfusiform or subclavate, thick walled, brownish or yellowish, smooth or rough, heavily and coarsely incrusted on the peripheral above half; spores hyaline, smooth, subglobose, about 6 × 5 μ.

Hab. On dead twigs of frondose wood. Bonin Islands (Sept. 20, 1915,

K. KAWATE).

Distr. Endemic.

Jap. name. *Yamato-urokotake* (YASUDA).

38. *Calocera furcata* FR.

Epicr. Myc. 581, 1838; Hymen. Eur. 680, 1874—KARST. Myc. Fenn. III, 344, 1876—SACC. Syll. Fung. VI, 733, 1888—SCHROET. Pilze Schles. I, 401, 1888.

Clavaria mucida (non PERS.) HORN. Fl. Dan. XXII, t. 1305, f. 1, 1806.

Clavaria (*Calocera*) *furcata* FR. Syst. Myc. I, 486, 1821.

Calocera mucida SACC. Fl. Ital. Crypt., Hymen. 1221, 1916.

Calocera cornea f. *furcata* NEUHOFF, Ark. f. Bot. XXVIII, 37, 1936.

Hab. On decaying coniferous wood. Chichishima: Ômura—Kiyose (Nov. 1937, M. OKABE).

Distr. Europe, North America, Japan.

Jap. name. *Aoki-tsunofunoritake* (n. n.).

39. *Tremella boninensis* S. ITO et IMAI, sp. nov.

Tremella samoensis LLOYD var. *boninensis* Y. KOBAYASI, Sci. Rep. Tokyo Bunrika Daig. Sect. B, IV, 10, f. 6–7, pl. 1, f. B–D, 1939.

Hab. On dead trunks of *Bladhia Sieboldii* NAKAI *(Mokutachibana)*. Chichishima: Ôgimura—Renjudani (Nov. 5, 9, 1936). Hahashima: Okimura—Kuwanokiyama (Nov. 18, 1936); Kitamura—Sekimonzan (Nov. 20, 1936).

Distr. Endemic.

Jap. name. *Ogasawara-kin-hanabira-take* (KOBAYASI).

40. *Heterochaete Ogasawarasimensis* S. ITO et IMAI, sp. nov.

Fructificatio resupinata, tenuis, membranacea, arcte adnata, late effusa, interdum margine reflexa, usque ad 3 cm. in diam., vel 1 × 4 cm. lata. Hymenio sicco, subavellaneo vel griseo-stramineo, subundulato, setuloso vel granuloso, margine substramineo, laeve, sub lente flocculoso fimbriatoque; setulis rigidis, crassis, subcylindricis, apice obtusis vel subcapitatis, flavo-brunneis, 150–180 × 40–60 μ; cystidiis acuminatis vel subaculeatis, hyalinis, 35–50 × 7.5–10 μ; basidiis ellipsoideis vel suboblongis, cruciatim partitis, hyalinis, circa 15 × 10 μ; sporis oblongis vel subcylindricis, uno latere depressis, 12.5–15 × 5 μ.

Hab. On branches or trunks of *Elaeagnus rotundata* NAKAI *(Marubanawashirogumi)*. Chichishima: Ôgimura–Renjudani (Nov. 7, 1936; Jan. 24, 1937, M. OKABE).

Distr. Endemic.

Jap. name. *Nikawa-urokotake-modoki* (n. n.).

41. *Hirneola polytricha* (MONT.) FR.

in WAHLB. Fungi Natal. 26, 1848; Nov. Symb. Myc. Fasc. I, 101, 1851—SACC. Syll. Fung. VI, 766, 1888.

Exidia purpurascens JUNGH. Praem. in Fl. Crypt. Javae Ins. I, 25, f. 23, 1838.

Exidia polytricha MONT in BÉLANGER, Voy. Indes-Orient. II, 154, 1846.

Auricularia polytricha SACC. Michelia, I, 12, 1877—LLOYD, Myc. Notes, **55**, p. 783, 1918.

Hab. On dead wood of various trees. Chichishima: Ôgimura—Renjudani (Nov. 9, 1936); Ômura (Nov. 5, 1936); Asahiyama (Nov. 12, 1936); Fukurozawamura—Kobikidani (Nov. 15, 1936). Hahashima: Okimura—Kuwanokiyama (Nov. 18, 1936); Kitamura—Sekimonzan (Nov. 20, 1936).

Distr. Common in tropical and subtropical regions.

Jap. name. *Arage-kikurage.*

42. *Trichocoma paradoxa* JUNGH.

Praem. in Fl. Crypt. Javae Ins. I, 9, pl. 2, f. 7, 1838—MONT. Ann. Sci. Nat., Bot. 2 sér. XVI, 308, 1841—MASS. Trans. Roy. Soc. London, B. CLXXVIII, 308, pl. 25, f. 9-16, 1888—ED. FISCH. Hedwigia, XXIX, 161-171, pl. 3, f. 1-9, 1890; in ENGLER & PR. Nat. Pflanzenf. I, **1**, 311, 1897—SACC. Syll. Fung. X, 82, 1892—C. W. DODGE, Ann. Myc. XXVII, 151, 1929.

Trichoskytale paradoxa CORDA, Anleit. Stud. Myc. 196-197, 1842.

Trichocoma laevispora MASS. Trans. Roy. Soc. London, B. CLXXVIII, 308-309, 1887—SACC. Syll. Fung. X, 83, 1892—ED. FISCH. in ENGLER & PR. Nat. Pflanzenf. I, **1**, 311, 1897.

Hab. On dead wood. Chichishima: Fukurozawamura—Kobikidani (Jan. 25, 1937, M. OKABE).

Distr. Java, Borneo, India, Ceylon, New Zealand, North and South America, Porto Rico, Japan (Honshu, Shikoku, Hachijô, Bonin).

Jap. name. *Mayuhaki-take* (YASUDA).

43. *Xylaria globosa* (SPRENG. ex FR.) S. ITO et IMAI, comb. nov.

Sphaeria globosa SPRENG. ex FR. Syst. Myc. II, 331, 1823.

Sphaeria anisopleura MONT. Ann. Sci. Nat. 2 sér. XIII, 348, 1840.

Hypoxylon globosum SPRENG. in MONT. Ibid. XIII, 350, 1840.

Xylaria anisopleura MONT. Syll. Crypt. 204, 1856—SACC. Syll. Fung. I, 323, 1882—LLOYD, Myc. Writ. IV, Letter **61**, p. 7, 1916; Ibid. V, Xylaria Notes **2**, p. 24, f. 1338-1339, 1918; Ibid. VI, 896, f. 1571, 1919; Ibid. VII, 1251, f. 2700, 1924—J. H. MILLER, Monogr. Univ. Puerto Rico, B. no. 2, 213, 1934.

Kretzschmaria rugosa EARLE, Bull. N. Y. Bot. Gard. III, 311, 1905.

Hab. On dead wood. Chichishima: Asahiyama (Nov. 12, 1936). Hahashima: Kitamura—Sekimonzan (Nov. 20, 1936).

Distr. South America, Peurto Rico, Micronesia, Philippine, Ceylon, India, Japan (Honshu, Bonin), Australia, Africa, Europe.

Jap. name. *Himetsukushitake.*

44. *Xylaria apiculata* CKE.

Grevillea, VIII, 66, 1879—SACC. Syll. Fung. I, 334, 1882—LLOYD, Myc. Writ. V, 676, f. 1003-1006, 1917; Xylaria Notes, p. 20, f. 1331, 1334, 1918; Myc. Writ. VI, 970, 1920; Ibid. VII, 1119, f. 2129, 1922.

Hab. On dead wood. Chichishima: Ôgimura—Suzaki (Nov. 7, 1936).

Distr. New Zealand, Brazil, Porto Rico, Ceylon, Bonin Islands.

Jap. name. *Fudetake.*

45. *Xylaria arbuscula* SACC.

Michelia, I, 249, 1878; Syll. Fung. I, 337, 1882—TRAV. Fl. Ital. Crypt., Pyrenom. 29, 1906—LLOYD, Myc. Writ. V, Xylaria Notes, 21, f. 1332, 1918—J. H. MILLER, Monogr. Univ. Puerto Rico, B, no. 2, 215, 1934.

Hab. On dead wood. Hahashima: Okimura—Kuwanokiyama (Nov. 18, 1936).

Distr. Europe, North and South America, Bermuda, Bahamas, Bonin Islands.

Jap. name. *Edauchi-kurosaiwai-take* (n. n.).

46. *Xylaria fusca* LLOYD

Myc. Writ. V, Myc. Notes, **54**, p. 770, f. 1155-1156, 1918.

Hab. On dead wood. Chichishima: Ôgimura—Renjudani (Nov. 5, 1936).

Distr. North America, Japan (Bonin Islands, ? Kiushu).

Jap. name. *Ko-hamakitake* (n. n.)

47. *Daldinia Eschscholzii* (EHRENB.) REHM,

Ann. Myc. II, 175, 1904—CHILD, Ann. Mo. Bot. Gard. XIX, 458, pl. 26, f. 5, pl. 27, f. 5, pl. 28, f. 5, pl. 29, f. 3, 5, 6, 8, pl. 31, f. 1, pl. 33, f. 3, 1932.

Sphaeria Eschscholzii EHRENB. Fung. Cham. 89, pl. 18, f. 8, 1820.

? Hypoxylon stratosum SACC. Syll. Fung. IX, 544, 1891.

Daldinia vernicosa f. *microspora* STARBÄCK, Svensk Vet. Akad. Handl. 3, XXVII°, 6, 1901, sensu THEISSEN.

Daldinia corrugata PAT. et MARIOT, Bull. Soc. Myc. Fr. XXII, 120, 1906, teste CHILD.

Daldinia concentrica var. *microspora* THEISSEN, Ann. Myc. VII, 3, 1909, teste CHILD.

Daldinia argentinensis f. *sessilis* SPEG. Anal. Mus. Nac. Buenos Aires 3, XII, 345, 1909, p. p. teste CHILD.

Daldinia luzonensis REHM, Philipp. Journ. Sci. VIII, 260, 1913, teste CHILD.

? Daldinia stratosa SACC. Syll. Fung. XXII, 327, 1913.

Hab. On dead wood. Chichishima: Ôgimura—Renjudani (March 27, 1937, M. OKABE).

Distr. North and South America, West Indies, Central Europe, Africa, Madagascar, Reunion Islands, Mauritius Islands, Syria, India, Malay, China, Philippine Islands, Java, Bonin Islands, Guam, Australia, Samoa, Tahiti.

Jap. name. *Chakobu-modoki* (n. n.).

48. *Hypoxylon atromaculosum* S. ITO et IMAI, sp. nov.

Stromate effuso, tenuissimo, 2–10 × 4–15 mm. lato, atro; ascis cylindricis, longe stipitatis; ascosporis ellipsoideis vel naviculatis, 10–15 × 5–6 μ.

Hab. On bark of dead tree trunks of frondose wood. Chichishima: Ômura—Kiyose (Nov. 14, 1936).

Distr. Endemic.

Jap. name. *Kuro-kobuazatake* (n. n.).

49. *Hypoxylon atropurpureum* FR.

Summa Veg. Scand. 384, 1849—SACC. Syll. Fung. I, 375, 1882—ELLIS & EVERH. North Amer. Pyrenom. 647, 1892—TRAV. Fl. Ital. Crypt., Pyrenom. 54, 1906.

Sphaeria atropurpurea FR. Syst. Myc. II, 340, 1823.

Hab. On bark of dead wood. Chichishima: Asahiyama (Nov. 12, 1936).

Distr. Europe, North America, Java, Philippine Islands, Bonin Islands.

Jap. name. *Shikon-kobuazatake* (n. n.).

50. *Hypoxylon deustum* (HOFFM. ex FR.) GREV.

Scot. Crypt. Fl. VI, pl. 324, f. 2, 1828.

Sphaeria maxima HALL. Hist. Stirp. Helv. III, 122, 1768.

Sphaeria deusta HOFFM. Veg. Crypt. I, 3, pl. 1, f. 2, 1787.

Hypoxylon ustulatum BULL. Champ. Fr. 176, pl. 487, f. 1, 1791—J. H. MILLER, Trans. Brit. Myc. Soc. XV, 143, pl. 6, f. 1, pl. 7, f. 6, 1930.

Sphaeria versipellis TODE, Fung. Meckl. Sel. Fasc. II, 55, pl. 17, f. 129, 1791.

Sphaeria deusta FR. Syst. Myc. II, 345, 1823.

Hypoxylon ustulatum FR. Summa. Veg. Scand. 383, 1849.

Ustulina vulgaris TUL. Sel. Fung. Carp. II, 23, pl. 3, f. 1-6, 1863—SACC. Syll. Fung. I, 351, 1882.

Ustulina maxima SCHROET. Pilze Schles. II, 465, 1897.

Ustulina deusta PETR. Ann. Myc. XIX, 279, 1921.

Hab. On bark of dead frondose wood. Hahashima: Okimura—Kuwanoki-yama (Nov. 18, 1936); Kitamura—Sekimonzan (Nov. 20, 1936).

Distr. Europe, North America, Cuba, Guyana, Venezuela, Ceylon, Bonin Islands.

Jap. name. *Ômi-kobutake.*

51. *Hypoxylon effusum* NITSCHKE

Pyrenom. Germ. 48, 1867—SACC. Syll. Fung. I, 379, 1882—ELLIS & EVERH. North Amer. Pyrenom. 651, 1892—TRAV. Fl. Ital. Crypt., Pyrenom. 50, 1906—THEISS. Ann. Myc. VII, 156, 1909—J. H. MILLER, Mycologia, XX, 319, 1928—RICK, Broteria, Bot., XXV, 23, 1931.

Hob. On bark of dead frondose wood. Chichishima: Ôgimura—Renju-dani (Nov. 9, 1936).

Distr. Europe, North and South America, Philippine Islands, Bonin Islands.
Jap. name. *Ita-kobutake* (YASUDA).

52. *Hypoxylon fusconigrum* S. ITO et IMAI, sp. nov.

Stromate late effuso, usque ad 5×4 cm. lato, tenui, juvenile "warm-sepia" dein nigrescente, minute papillato; ascis cylindricis, p. sp. 60–70×6–8 μ; ascosporis ellipsoideis vel naviculatis, inaequilateralibus, opacis, 8–10×3–4 μ.

Hab. On bark of tree trunks of frondose wood. Chichishima: Takeda-bokujô (Nov. 5, 1936).

Distr. Endemic.

Jap. name. *Cha-kobuazatake* (n. n.).

53. *Hypoxylon macroannulatum* S. ITO et IMAI, sp. nov.

Stromate hemisphaerico-tuberculiformi vel irregulariter effuso, vel convexo-hemisphaerico, 1–3 cm. lato, nigro, superficie asperulato; peritheciis subglobosis, monostichis, magnis, circa 1 mm. in diam., circa papillato-ostiolato annulato-truncatis; ascis cylindricis, p. sp. 70–80×5.5–7 μ; ascosporis ellipsoideis vel naviculatis, inaequilateralibus, opacis, 9–12.5×4–5.5 μ.

Hab. On bark of dead tree trunks of *Machilus Kobu* MAXIM. *(Yamagusu)*. Chichishima: Ôgimura—Sakaehama (Nov. 5, 1936).

Distr. Endemic.

Jap. name. *Ô-kuro-kobuazatake* (n. n.).

54. *Hypoxylon rubiginosum* [PERS.] FR.

Summa Veg. Scand. 384, 1849—CKE. Handb. Brit. Fung. II, 796, 1871—KARST. Myc. Fenn. II, 40, 1873—QUÉL. Champ. Jura Vosg. III, in Mém. Soc. D'Emul. Montb. 2 sér. V, 492, 1875—SACC. Syll. Fung. I, 376, 1882—ELLIS & EVERH. North Amer. Pyrenom. 645, 1892—TRAV. Fl. Ital. Crypt., Pyrenom. 46, 1906—J. H. MILLER, Trans. Brit. Myc. Soc. XV, 144, 1930—RICK, Broteria, Bot., XXV, 29, 1931.

Sphaeria rubiginosa PERS. Syn. Fung. 11, 1801.
Sphaeria perforata SCHW. Syn. Fung. Carol. n. 45, 1822.
Sphaeria rubiginosa FR. Syst. Myc. II, 340, 1823.
Sphaeria fuscopurpurea SCHW. Journ. Acad. Nat. Sci. Phila. V, 16, 1825.
Sphaeria decorticata SCHW. Trans. Amer. Phil. Soc. N. S. IV, 191, 1832.
Sphaeria Catalpae SCHW. Ibid. p. 193, 1832.
Hypoxylon perforatum FR. Summa Veg. Scand. 384, 1849.
Hypoxylon luridum NITS. Pyrenom. Germ. 31, 1867.
Hypoxylon purpureum NITS. Ibid. 37, 1867.
Diatrype cercidicoma BERK. et CURT. in PK. 25 Ann. Rep. N. Y. State Mus. 101, 1873.
Hypoxylon crocopeplum BERK. et CURT. Grevillea, IV, 50, 1875.
Hypoxylon florideum BERK. et CURT. Ibid. 50, 1875.
Hypoxylon decorticatum BERK. Ibid. 50, 1875.

Hypoxylon suborbiculare PK. 30 Ann. Rep. N. Y. State Mus. 63, 1878.
Anthostoma cercidicolum SACC. Syll. Fung. I, 306, 1882.
Hypoxylon Catalpae SACC. Ibid. 392, 1882.
Hypoxylon piceum ELLIS, Amer. Nat. XVII, 194, 1883.
Hypoxylon subchlorinum ELLIS et CAL. Journ. Myc. IV, 86, 1888.
Hypoxylon subluteum ELLIS et. EVERH. North. Amer. Pyrenom. 648, 1892.
Nummularia lateritia ELLIS et EVERH. Phil. Acad. **1893**, p. 144.
Hypoxylon lianicolum REHM, Ascom. Philipp. IV, in Leafl. Philipp. Bot. VI, 1944, 1913.

Hab. On bark of dead frondose wood. Chichishima: Ôgimura—Renjudani (Nov. 9, 1936).

Distr. Europe, North and South America, West Indies, Java, Ceylon, Philippine, Bonin Islands, Japan, North Africa.

Jap. name. *Aka-kobuazatake* (n. n.).

55. *Apiocrea chrysosperma* (TUL.) SYD.

Ann. Myc. XVIII, 187, 1920—PETCH, Trans. Brit. Myc. Soc. XXI, 275, f. 15, 1938.
Reticularia chrysosperma BULL. Champ. Fr. pl. 476, f. 4, 1791.
Mucor chrysospermus BULL. Ibid. pl. 564, f. 1, 1791.
Uredo mycophila PERS. Obs. Myc. I, 16, 1796.
Sepedonium chrysospermum FR. Syst. Myc. III, 438, 1829.
Hypomyces chrysospermus TUL. Ann. Sci. Nat. 4 sér. XIII, 16, 1860; Sel. Fung. Carp. III, 51, pl. 8, f. 1–13, 1865; PLOWER. Monogr. Brit. Hypomyces, 4, pl. 146, 1879—SACC. Syll. Fung. II, 467, 1883—SEAVER, Mycologia, II, 76, pl. 21, f. 16, 1910; North Amer. Fl. III, 43, 1910.
Hypomyces boletinus PECK, 75 Bull. N. Y. State Mus. 15, 1904.

Hab. On *Boletus bovinus* FR. *(Awatake)*. Chichishima: Takeda-bokujô (Nov. 5, 1936).

Distr. Cosmopolitan.

Jap. name. *Awatake-yadori* (n. n.).

56. *Chromocreopsis microasca* S. ITO et IMAI, sp. nov.

Stromate gregario, pulvinato effusoque, 0.5–3 cm. lato, carnoso vel subcarnoso, sicco "dark-olive-buff" vel "buffy-brown", leviter asperulato; peritheciis cucurbitiformibus, membrano cellulis "olive-brown" colorato, 190–230 μ in diam.; ascis clavatis, 6–8-sporis, 12–15 × 3–5 μ; ascosporis subglobosis, late oblongis vel globosis, 2.5–3 × 2–2.5 μ vel 2.5 μ in diam., laevibus, membrano olivaceo.

Hab. On dead wood. Chichishima: Ôgimura—Renjudani (Nov. 9, 1936).

Distr. Endemic.

Jap. name. *Ô-oriibu-botantake* (n. n.).