

Hepaticae from Palau, Caroline Islands, II. Enumeration

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This concludes our report of Palauan hepatics which has been so ably assisted by Dr. Hiroshi Inoue. A list of specimens examined and of species previously reported follows. Spellings of place names are according to Gressitt (1954) wherever possible. Occasional specimens sent for study are cited in the enumeration but, as most were derived from the Miami University Expeditions, a synopsis of localities is given so that only collection numbers are cited for each species. Micronesian and extra-Micronesian distributional data are derived from diverse sources seen in the Literature Cited and are not individually documented here.

- 1-65 Babelthuap, above Ngatpang, ca. 600 feet, 1-15 September 1960, Lee S. Dutton.
- 1333-1403 Peleliu, low elevation to 100 feet, 23 August 1960, H. O. Whittier.
- 7718-774 Ngesebus, 23 August 1960, H. A. Miller and H. O. Whittier.
- 7775-7817 Peleliu, main ridge, 24 August 1960, H. A. Miller and H. O. Whittier.
- 7818-7899 Ngurukdabel, 10-100 feet, 25 August 1960, H. A. Miller.
- 7900-7979 Babelthuap, Ngatpang, cacao plantation, 150 feet, 29 August 1960, H. A. Miller.
- 7980-8207 Babelthuap, Ngatpang, forest above cacao plantation, 400-500 feet, 30 August 1960, H. A. Miller.
- 8208-8304 Koror, summit, ca. 350 feet, 31 August 1960, H. A. Miller.
- 9828-9853 Korak, 10-25 feet, 22 May 1965, H. A. Miller.
- 9854-9912 Babelthuap, Ngarabau village, 10-100 feet, 22 May 1965, H. A. Miller.
- 9913-9943 Ulebsehel, 10-100 feet, 24 May 1965, H. A. Miller.
- 9944-9985 Babelthuap, Airai, 100-300 feet, 24 May 1965, H. A. Miller.
- 9986-10055 Ngurukdabel, in forest, 250-450 feet, 25 May 1965, H. A. Miller.
- 10056-10094 Ngurukdabel, from branches overhanging lagoon 8-15 feet, 25 May 1965, H. A. Miller.

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Enumeration of Species

1. *Mastigophora diclados* (Brid.) Nees. Nat. d. europ. Leberm. 3:90. 1838.
Distribution: Bonins; Volcanos: Minami Iwo Jima; Marianas: Alamagan;
Carolines: Kusaie, Ponape, Palau. Africa, St. Thome, Madagascar, Mascarenes,
India, Ceylon, Nicobars, Banka, Java, Malay Peninsula.
2. *Bazzania watanabei* Inoue. J. Jap. Bot. 34:269. 1959. Reported as
new species by Inoue (1959). Known only from Palau.
3. *Neolepidozia wallichiana* (Gott.) Fulford & J. Tayl. Brittonia 11:84. 1959.
Collections: Babelthuap: 7, 60, 8109, 8112, 8135, 8144, 8178; Cheatham
115, AMS Coord. 487235.
Distribution: Carolines: Kusaie, Ponape. India, Ceylon, Nepal, Banka,
Java, Borneo, Amboina, Japan, Taiwan, New Guinea.
4. *Acromastigum echinatum* (Gott.) Evans. Ann. Bryol. Suppl. 3:147. 1934.
Distribution: Carolines: Koror. Sumatra, Banka, Gt. Natuna I., Malay
Peninsula, Borneo, Amboina.
5. *Acromastigum obliquatum* (Mitt.) Evans. Ann. Bryol. Suppl. 3:110.
1934. This includes *Acromastigum palauense* reported by Inoue (1959).
Collections: Babelthuap: 3, 7950, 7977, 8020, 8053, 8087, 8101, 8144, 8158,
8178; Cheatham 135, AMS Coord. 457242; Cheatham 146, Babelthuap near Nge-
remlengui.
Distribution: Kusaie, Ponape, Truk. Solomons.
6. *Calypogeia arguta* Nees. Nat. d. europ. Leberm. 3:24. 1838.
Collection: Babelthuap: 8177.
Distribution: Bonins: Chichijima; Carolines: Kusaie, Ponape. North
America, Europe, North Africa, India, Java, Japan, Taiwan, New Guinea, Hawaii.
New to Palau.
7. *Chiloscyphus argutus* (R.B.N.) Nees. Syn. Hep. p. 183. 1845.
Collection: Babelthuap: 7983.
Distribution: Bonins: Hahajima; Carolines: Truk. Mauritius Is., Assam,
Sumatra, Banka, Java, Borneo, Pulau-Pulau Is., Japan, Philippines, New Guinea,
Australia, Norfolk I., New Zealand, Stewart I. New to Palau.
8. *Chiloscyphus communis* Steph. Spec. Hep. 3:211. 1906.
Collection: Ngurukdabel: 7849.
Distribution: Sikkim, Assam, Andamans, Sumatra, Java, Timor, Celebes,
Japan, New Guinea, Australia, Samoa. New to Palau and Micronesia. Recently
discovered on Truk and Yap.
9. *Jungermannia ariadne* Tayl. In Lehm. Pug. Pl. 8:9. 1844. This includes
Plectocolea ariadne (Tayl. In Lehm.) Mitt. Reported by Inoue (1956).
Collections: Cheatham 116, Arakabesan I.
Distribution: Carolines: Ponape, Palau. Himalayas, Burma, Sumatra,
Java, Malay Peninsula, Borneo, Amboina, Ryukyus, Taiwan.
10. *Plagiochila frondescens* (Nees) Lindenb. Spec. Hep. p. 52. 1840-1844.

Collection: Babelthuap: 8025.

Distribution: East Africa, India, Ceylon, Sikkim, Burma, Sumatra, Java, Celebes, Amboina, Ryukyus, Philippines, New Guinea, Tahiti, Hawaii. New to Palau and Micronesia.

11. *Radula anceps* Sande Lac. Nederl. kriudk. Arch. 3:419. 1854.

Distribution: Carolines: Kusaie, Ponape, Palau. Nicobars, Sumatra, Banka, Java, Malay Peninsula, Sarawak, Borneo, Philippines, New Guinea, New Caledonia.

12. *Radula javanica* Gott. In G.L.N. Syn. Hep. p. 257. 1845.

Collections: Babelthuap: 13, 7931, 7963, 8015, 8037, 8081, 8114, 8129; Ngurukdabel: 7820, 7823, 7827, 7850, 7851, 7854, 7855, 7856, 7859, 7891, 7892, 10056, 10065, 10069, 10070, 10071, 10072; Cheatham 115, AMS Coord. 487235.

Distribution: Marianas; Carolines: Kusaie, Ponape, Truk, Yap. Madagascar, India, Ceylon, Sumatra, Java, China, Philippines, New Guinea, Australia, Samoa, Cook Is., Tahiti, Hawaii.

13. *Radula novae-guineae* Steph. Spec. Hep. 4:233. 1910.

Distribution: Carolines: Kusaie, Ponape, Palau. New Guinea.

14. *Radula nymannii* Steph. Spec Hep. 4:229. 1910.

Distribution: Carolines: Kusaie, Palau. Ceylon, Sumatra, Java, Celebes, Amboina, Philippines, New Guinea, New Caledonia, Fiji, Samoa, Tahiti.

15. *Radula oceania* Castle. Rev. Bryol. Lichénol. 33:390. 1965.

Collections: Babelthuap: 8026, 8079, 9980, 9982; Ngurukdabel: 7824, 7825, 7834, 7863, 7879, 7883, 7886, 7894, 10058, 10061, 10062, 10066, 10067, 10074, 10081, 10082, 10087.

Distribution: Samoa, Tahiti. New to Palau and Micronesia.

16. *Radula paucidens* Steph. ex Castle. Rev. Bryol. Lichénol. 30:39. 1961.

Collections: Babelthuap: 7, 9, 26, 49, 57, 8010, 8013, 8102; Ngurukadabel: 7829, 7832, 7849, 7853, 7889, 7895, 7897.

Distribution: Nicobars, Sumatra, Philippines, New Guinea, Samoa. New to Palau and Micronesia. Recently discovered on Ponape.

17. *Frullania apiculata* (R.B.N.) Dum. Rec. d'Obs. p. 13. 1835.

Collections: Babelthuap: 8207; Ngurukdabel: 7850.

Distribution: Carolines: Kusaie, Pingelap, Ponape, Truk. Ceylon, Moluccas, Philippines, New Guinea, Hawaii. New to Palau.

18. *Frullania gaudichaudii* Nees & Mont. Syn. Hep. p. 435. 1845.

Collection: Ngurukdabel: 10065.

Distribution: Marianas: Guam. South America, India, Andamans, Nicobars, Java, Malay Peninsula, Borneo, Celebes, Amboina, Philippines, New Guinea, Admiralties, Tasmania, New Zealand. New to Palau and Carolines.

19. *Frullania gracilis* (R.B.N.) Dum. Rec. d'Obs. p. 13. 1835.

Collections: Babelthuap: 65, 7904, 7905, 7907, 7915, 7918, 7966, 7985, 8025, 8028, 8041, 8043, 8113, 8121, 8143, 8163, 9962; Ngurukdabel: 7835, 10067, 10075; Ngesebus: 7737.

Distribution: Carolines: Palau. Ceylon, Andamans, Sumatra, Java, Malay Peninsula, Philippines.

20. *Frullania hypoleuca* Nees In G.L.N. Nova Acta Acad. Leop.-Caro 19 (Suppl.1): 470. 1843.

Collections: Babelthuap: 8004, 8019, 8025, 8203.

Distribution: Carolines: Pingelap, Ponape. Java, Malay Peninsula, New Guinea, Hawaii. New to Palau.

21. *Frullania nodulosa* (R.B.N.) Nees. Syn. Hep. p. 433. 1845.

Collections: Ngurukdabel: 10064, 10074, 10076, 10077, 10084, 10086, 10090, 10091, 10094.

Distribution: Marianas; Carolines: Ponape. South America, Central America, West Indies, East Africa, Ceylon, Burma, Andamans, Sumatra, Banka, Java, Sumbawa, Malay Peninsula, Borneo, Celebes, Amboina, Seram, Japan, Philippines, New Guinea, Australia, New Caledonia, New Zealand, New Hebrides, Fiji, Tahiti. New to Palau.

22. *Ptychocoleus cumingianus* (Mont.) Trev. Mem. Istit. Lombardo. Ser. 3, 4: 405. 1877.

Collections: Babelthuap: 7918, 8019, 8023, 8043, 8972, 8164, 8181, 9945; Koror: 8209, 8236; Ngurukdabel: 7862, 7891; Peleliu: 7811; Cheatham 145; Babelthuap near Ngeremlengui.

Distribution: Carolines: Truk. Vietnam, Andamans, Nicobars, Sumatra, Java, Malay Peninsula, Borneo, Celebes, Amboina, Seram, Philippines, New Guinea, Australia, Samoa, Tahiti, Marquesas. New to Palau.

23. *Ptychocoleus pycnocladus* (Tayl.) Steph. Spec. Hep. 5: 52. 1912.

Collections: Babelthuap: 8004, 8122; Koror: 8235; Peleliu: 7799.

Distribution: Marshalls: Arno; Carolines: Pingelap, Ponape, Truk, Yap, Ceylon, Andamans, Sumatra, Java, Malay Peninsula, Borneo, Amboina, Philippines, New Guinea, Solomons, Samoa, Tahiti. New to Palau.

24. *Thysananthus spathulistipus* (R.B.N.) Lindenb. Syn. Hep. p. 287. 1845.

Collections: Babelthuap: 8043.

Distribution: Madagascar, Mauritius, Mascarenes, Ceylon, Sikkim, Assam, Vietnam, Andamans, Sumatra, Java, Sumbawa, Malay Peninsula, Borneo, Amboina, Saparua, Seram, Philippines, New Guinea, New Caledonia, New Hebrides, Samoa, Hawaii. New to Palau and Micronesia. Recently discovered on Ponape.

25. *Mastigolejeunea ligulata* (Lehm. & Lindenb.) Spr. Trans. Bot. Soc. Edinburgh 15: 101. 1884.

Collections: Babelthuap: 8021, 8063, 8071; Ngurukdabel: 7828, 7846, 7881, 7887, 7898; Peleliu: 7791, 7802, 7805.

Distribution: Banka, Malay Peninsula, Borneo, Celebes, Buru, Seram, New Guinea, Samoa, Tahiti. New to Palau and Micronesia.

26. *Lopholejeunea applanata* (Nees) Steph. Spec. Hep. 5: 78. 1912.

Distribution: Carolines: Kusaie, Ponape, Palau. Sumatra, Java, Krakata, Borneo, China, Japan, New Guinea.

27. *Lopholejeunea javanica* (Nees) Steph. Hedwigia 29: 16. 1890.

Collections: Babelthuap: 9886, 8102, 8191; Korak: 9833; Koror: 9853;

Ulebsehel: 9936.

Distribution: Carolines: Kusaie, Ponape, Truk, Yap, Ngiangl, Pulo Anna.

Java.

28. *Lopholejeunea subfusca* (Nees) Steph. Hedwigia 29: 16. 1890.

Collections: Babelthuap: 26, 33, 49, 57, 7909, 7910, 7934, 7971, 8007, 8031, 8032, 8042, 8046, 8083, 8161, 8163, 8164, 8166, 8190, 9863, 9881, 9882, 9897, 9905, 9909, 9948, 9949, 9954, 9958, 9982; Korak: 9845, 9851; Koror: 8271, 8276, 8284; Ulebsehel: 9930, 9938; Ngurukdabel: 9988, 9992, 10002, 10003, 10011, 10013, 10015, 10017; Ngesebus: 7733, 7734.

Distribution: Marshalls: Ujae, Arno; Carolines: Kusaie, Pingelap, Ponape, Truk, Puluwat, Ifaluk, Yap, Pulo Anna. India, Ceylon, Sumatra, Java, Krakatau, Malay Peninsula, Borneo, Amboina, Banda, Japan, Philippines, New Guinea, New Caledonia, Samoa, Tahiti.

29. *Symbiezidium samoanum* (Steph.) Steph. Spec. Hep. 5: 106. 1912. This includes *Lopholejeunea densiloba* Horikawa reported in Sci. Rep. Tohoku Imp. Univ. ser. 4, 4: 421. 1929.

Collections: Babelthuap: 9884, 9892, 9903, 9907, 9908, 8016, 9960; Korak: 9841, 9843; Koror: 8210, 8231; Ngurukdabel: 9989, 9993, 9998, 10050; Nge-sebus: 7760.

Distribution: Carolines: Ant. Yap, Ngiangl, Pulo Anna. Samoa.

30. *Caudalejeunea reniloba* (Gott.) Steph. Spec. Hep. 5: 16. 1912.

Collections: Babelthuap: 8032, 8190; Koror: 8258.

Distributions: Marshalls; Thailand, Andamans, Sumatra, Malay Peninsula, Borneo, Celebes, Seram, Philippines, New Guinea, Fergusson I., Admiralties, Australia, New Caledonia, Samoa, Tahiti. New to Palau and Carolines. Recently discovered on Ponape, Truk, and Yap.

31. *Caudalejeunea stephanii* Spr. ex Steph. Spec. Hep. 5: 17. 1912.

Distribution: Reported in Palau by Inoue (1959). Sumatra, Java, Philippines, New Guinea.

32. *Archilejeunea mariana* (Gott.) Steph. Bull. Herb. Boissier 5: 842. 1897.

Collections: Babelthuap: 7932, 7971, 8007, 8042, 8046, 8072, 8159, 8166, 8205, 9862, 9953, 9958, 9971; Koror: 8224, 8298; Ulebsehel: 9923, 9939, 9941; Ngurukdabel: 7822, 7863, 7866, 7883, 7891, 7892, 9995, 10006, 10007, 10014, 10015, 10037, 10057, 10058, 10060, 10069, 10087.

Distribution: Marianas; Marshalls: Ujae, Lae, Ujelang, Kwajalein; Carolines: Pingelap, Ponape, Kapingamarangi, Truk, Namonuito, Puluwat, Ifaluk, Sorol, Yap. India, Thailand, Vietnam, Sumatra, Java, Malay Peninsula, Borneo, Celebes, Taiwan, Philippines, New Guinea, Solomons, New Caledonia, Samoa, Cook Is., Tahiti, Hawaii.

33. *Ceratolejeunea moniliata* Herz. Mitt. Inst. Allgem. Bot. Hamburg 7: 205. 1931.

Distribution: Carolines: Ponape, Palau. Borneo.

34. *Ceratolejeunea tahitensis* Steph. Spec. Hep. 5: 444. 1913.

Collection: Babelthuap: 7918.

Distribution: Carolines: Kusaie, Ponape. Sumatra, Java, Philippines

Tahiti.

35. *Hygrolejeunea devexiloba* Steph. Hedwigia 35: 101. 1896.

Collections: Babelthuap: 41, 9897.

Distribution: Carolines: Kusaie, Ponape. Philippines, Fiji.

36. *Hygrolejeunea latistipula* Schiffn. Exped. Gazelle p. 30. 1889.

Collection: Babelthuap: 8104.

Distribution: Marianas: Tinian; Carolines: Ponape. Bismarcks.

37. *Hygrolejeunea sordida* (Nees) Steph. Spec. Hep. 5: 570. 1914.

Collections: Babelthuap: 7910, 7922, 7947, 7953, 8046, 8079, 8083, 8117, 8122, 8161, 8173, 8181, 9966, 9967, 9976, 9982; Korak: 9841; Ngurukdabel: 7845, 10026, 10032, 10044, 10052, 10060, 10066, 10067, 10072, 10087; Cheatham: 157, Babelthuap near Airai.

Distribution: Marianas; Carolines: Kusaie, Pingelap, Ponape, Truk, Yap, Java, Amboina, Philippines, Admiralties.

38. *Cheilolejeunea imbricata* (Nees) Hatt. Misc. Bryol. Lichenol. 1 (14): 1. 1957.

Collections: Babelthuap: 7915, 7940, 8203; Ngurukdabel: 9996, 10001, 10017, 10074.

Distribution: Bonins; Carolines: Kusaie, Ponape, Yap. Vietnam, Sumatra, Java, Malay Peninsula, Borneo, Japan, Ryukyus, Taiwan, New Guinea.

39. *Cheilolejeunea intertexta* (Lindenb.) Steph. Bull. Herb. Boissier 5: 842. 1897. This includes *Cheilolejeunea grandiflora* Steph. now considered a synonym of *C. intertexta*.

Collections: Babelthuap: 7909, 7918, 7934, 7936, 7971, 8153, 8199. Korak: 8293; Ngurukdabel: 7843, 10073; Cheatham s.n., s.d., 1966.

Distribution: Marshalls: Ailinglapalap, Wotho, Ujae, Lae, Arno, Majuro, Jaluit; Carolines: Pingelap, Mokil, Kapingamarangi, Pakin, Truk, Namoruit, Puluwat, Ifaluk, Sorol, Yap, Ngiangl, Pulo Anna, Kusaie, Ponape, Nuk uoro, Lukunor, Woleai. New Guinea.

40. *Pycnolejeunea bidentula* Steph. Hedwigia 28: 259. 1889.

Collections: Babelthuap: 59, 7980, 7909, 7953, 7963, 7990, 8091, 8185, 8193; Ngurukdabel: 9992, 10003, 10041, 10060, 10080. This includes *Cheilolejeunea bidentula* (Steph.) Inoue reported by Inoue (1959).

Distribution: Palau. Vietnam, Java, Borneo, Philippines, New Guinea, Fiji.

41. *Rectolejeunea barbata* Herz. J. Hattori Bot. Lab. 14: 49. 1955.

Collections: Babelthuap: 7992, 9958.

Distribution: Carolines: Kusaie. Taiwan. New to Palau.

42. *Rectolejeunea obliqua* Herz. J. Hattori Bot. Lab. 14: 49. 1955.

Collections: Babelthuap: 7913, 7919, 7926, 7936, 7937, 7945, 7957, 7961, 7976, 7979, 7989, 8011, 8078, 8100, 8113, 8116, 8166, 8184, 8194, 9892, 9954; Koror: 8215, 8248, 8253, 8257, 8262, 8267, 8285, 8296; Ulebsehel: 9940; Ngurukdabel: 9999; Peleliu: 7794.

Distribution: Palau. Botel Tobago.

43. *Drepanolejeunea vesiculosa* (Mitt.) Steph. Spec. Hep. 5: 356. 1913.

Collections: Babelthuap: 7924, 7930, 8193; Ngurukdabel: 7847, 9996, 10002.

Distribution: Reported from Koror by Mizutani (1964). Ceylon, Vietnam, Java, Malay Peninsula, Borneo, Tahiti.

44. *Leptolejeunea subacuta* Steph. In Evans. Proc. Washington Acad. Sci. 8:149. 1906. This should probably include Hattori's report of *Leptolejeunea satakeana* Hatt. Bot. Mag. Tokyo 64: 117. 1951. *nom. nud.*

Collections: Babelthuap: 71, 9862, 7945, 7984, 8045, 8067, 8127, 8192; Ulebsehel: 9918; Ngurukdabel: 7857, 10000, 10009, 10012, 10020, 10021, 10022, 10029, 10035, 10045, 10047, 10063, 10068, 10078, 10083, 10085, 10093.

Distribution: Bonins: Chichijima; Carolines: Kusaie, Ponape, Truk, Yap. Sumatra, Java, Borneo, Moluccas, Japan, Ryukyus, Taiwan, Philippines.

45. *Lejeunea aloboidea* Miller & Bonner. Nova Hedwigia Beih. 11: 59. 1963.

Distribution: Carolines: Ngiangl, Pulo Anna.

46. *Lejeunea boninensis* Horikawa. J. Sci. Hiroshima Univ. ser. B, Div. 2, 1: 24. 1931.

Collections: Babelthuap: 48, 51, 9868, 9889, 7923, 7925, 7929, 7940, 7943, 7947, 7957, 7961, 7979, 7980, 7981, 7983, 7986, 7988, 7990, 7993, 8044, 8050, 8052, 8068, 8085, 8103, 8116, 8125, 8147, 8152, 8184, 8185, 8194, 9947, 9948, 9949, 9958; Koror: 9845; Koror: 8205, 8214, 8220, 8222, 8225, 8226, 8228, 8230, 8236, 8241, 8243, 8247, 8252, 8261, 8267, 8268, 8269, 8274, 8278, 8279, 8284, 8287, 8288, 8289, 8291, 8294, 8295, 8301, 8304; Ulebsehel: 9914, 9915, 9919, 9930, 9933, 9935, 9937, 9938, 9940; Ngurukdabel: 7833, 7880, 10010, 10025, 10036, 10044, 10052, 10053, 10054; Ngesebus: 7732, 7735 7741, 7769, 7772; Peleliu: 7777, 7780, 7783, 7787, 7788, 7789, 7798, 7812.

Distribution: Bonins; Carolines: Kusaie, Ponape, Truk, Yap. Japan, Ryukyus. New to Palau.

47. *Lejeunea clavata* Lindenb. Syn. Hep. p. 379. 1845.

Collections: Babelthuap: 8011, 9910.

Distribution: Marshalls: Majuro, Jaluit; Carolines: Kusaie, Kapingamarangi, Truk, Namonuito, Puluwat, Ifaluk, Sorol, Yap, Pulo Anna. Not known outside Micronesia.

48. *Lejeunea gracilis* Steph. Spec. Hep. 5: 777. 1915.

Collections: Babelthuap: 9911, 7999, 8185, 9957; Koror: 9853; Koror: 8211, 8260, 8271, 8273, 8277, 8284; Ngurukdabel: 10026, 10053; Ngesebus: 7735; Peleliu: 7806.

Distribution: Marshalls: Ujae, Arno; Carolines: Mokil, Kapingama-

rangi, Truk Namonuito, Puluwat, Ifaluk, Sorol. New Guinea.

49. *Lejeunea patersonii* Steph. Hedwigia 35: 92. 1896.

Collections: Babelthuap: 8066, 8195.

Distribution: Carolines: Kusaie, Ponape, Truk. Java, New Guinea. New to Palau.

50. *Lejeunea wightii* Lindenb. Syn. Hep. p. 379. 1845.

Collections: Babelthuap: 1, 27.

Distribution: India, Himalayas, Taiwan, Botel Tobago. New to Palau and Micronesia.

51. *Microlejeunea cucullata* (R.B.N.) Steph. Bot. Centralbl. 60: 106. 1894. This includes *Microlejeunea albicans* (Nees) Steph. reported by Inoue (1959).

Collections: Babelthuap: 52, 9871, 9885, 7916, 7936, 7966, 7971, 8085, 8104, 8193, 9959; Ngurukdabel: 9992, 10013, 10062; Ngesebus: 7732, 7761.

Distribution: Carolines: Kusaie, Pingelap, Ponape, Truk, Yap. Madagascar, Vietnam, Java, Philippines, New Guinea, Norfolk I., New Zealand, Fiji, Tahiti, Hawaii.

52. *Microlejeunea lunulatiloba* Horikawa. J. Sci. Hiroshima Univ. ser. B, Div. 2, 1: 27. 1931. This includes *Microlejeunea cummingiana* Steph. reported by Inoue (1959).

Collections: Babelthuap: 64, 7911, 7922, 7930, 7954, 7963, 8085, 8184; Koror: 8285; Ngurukdabel: 7882, 9987, 10011; Ngesebus: 7724, 7764.

Distribution: Bonins: Chichijima, Hahajima; Marshalls: Jaluit; Carolines: Kusaie, Pingelap, Mokil, Ponape, Kapingamarangi, Truk, Yap, Puluwat, Ifaluk. Hawaii.

53. *Colura acutifolia* Jovet-Ast. Rev. Bryol. Lichénol. 22: 281. 1953.

Collection: Babelthuap: 8032.

Distribution: Sumatra, Borneo, Cambodia, Vietnam. New to Palau and Micronesia. Recently discovered on Ponape.

54. *Cololejeunea campanulata* Benedix. Feddes Repert. Beih. 134: 66. 1953.

Collections: Babelthuap: 7945, 7961, 7971; Koror: 9845; Koror: 8277; Peleliu: 7777, 7783, 7788, 7799.

Distribution: Carolines: Kusaie, Mokil, Ponape, Truk. Sumatra, Java. New to Palau.

55. *Cololejeunea kapingaensis* Miller. Bryologist 59: 170. 1956.

Collections: Babelthuap: 9862, 9865; Koror: 8228; Ulebsehel: 9932; Ngesebus: 7718, 7730, 7745, 7749, 7750, 7751, 7752, 7755, 7756, 7766; Peleliu: 7785.

Distribution: Marshalls: Majuro; Carolines: Kusaie, Mokil, Kapingamarangi, Truk, Namonuito, Puluwat, Ifaluk, Sorol, Yap, Ngiangl, Pulo Anna. Not known outside Micronesia.

56. *Cololejeunea micronesica* Miller & Bonner. Nova Hedwigia Beih. 11: 63. 1963.

Distribution: Carolines: Ngiangl, Pulo Anna.

57. *Cololejeunea wightii* Steph. Hedwigia 34: 253. 1895.

Collections: Babelthuap: 9883, 7913, 7945, 8050, 8078, 8080, 8088, 8172, 8184, 9948, 9954, 9956, 9961, 9966, 9973, 9974; Koror: 8223, 8242, 8275; Uleb-sehel: 9913, 9936, 9940; Ngurukdabel: 7895, 10043; Ngesebus: 7719, 7720, 7723, 7725, 7726, 7728, 7731, 7735, 7736, 7738, 7739, 7740, 7749, 7755.

Distribution: Carolines: Mokil, Kapingamarangi, Nukuoro, Truk, Namonuito, Ifaluk, Sorol, Yap, Ngiangl, Pulo Anna. New Guinea.

58. *Pallavicinia lyellii* (Hook.) S. F. Gray. Natur. Arr. Brit. Pl. 1:775. 1821.

Collections: Cheatham 17, Coord. 550 245.

Distribution: Bonins: Chichijima; Carolines: Kusaie, Ponape. Java, Moluccas, Japan, Ryukyus, Philippines. New to Palau.

59. *Riccardia platyclada* Schiffn. Kais. Ak. Wien. 67: 167. 1898.

Distribution: Reported from Palau by Inoue (1959). Sumatra, Java, Borneo.

60. *Riccardia* spp. The taxonomy of this world-wide genus is in total disorder.

The following specimens representing 3 or 4 species have been forwarded to an expert, Dr. Hans Hürlimann of Basel, Switzerland. Babelthuap: 47, 53, 7906, 7917, 7959, 7962, 7970, 8023, 8027, 8038, 8146, 8159, 8189, 9856, 9870, 9874, 9877; Korak: 9835, 9837, 9849; Koror: 8254, 8283, 8286, 8299; Ngurukdabel: 7844, 10004, 10033, 10038, 10040, 10048; Ngesebus: 7744, 7753, 7765, 7774; Peleliu: 7779, 7813.

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