

○Collections of *Radula* (Hepaticae) from the Philippines¹⁾ (Kohsaku YAMADA) 山田耕作: フィリピン産 *Radula* 属 (苔類) のコレクション

The hepatic flora of the Philippines is not yet adequately known. For the genus *Radula* (Radulaceae; Hepaticae) only 11 species have been reported from the Philippines. They are: *Radula acuminata*, *R. anceps*, *R. apiculata*, *R. decurrens*, *R. javanica*, *R. kojana*, *R. miqueliana*, *R. paucidens*, *R. nymanii*, *R. protensa*, and *R. tjobodensis*; the first, and the last three species are members of sect. *Epiphyllae* Castle ex Grolle. Recently I studied 54 *Radula* collections made by Dr. and Mrs. A. J. Sharp (Tennessee) and Dr. Z. Iwatsuki (Nichinan) in Luzon and Negros Islands, the Philippines, and confirmed 11 species as listed below, among which 6 species have not been known previously from the Philippines. In the present study I could not find any epiphyllous *Radula* species, though I saw a rich epiphyllous population of many species of the Lejeuneaceae in other materials also collected by Dr. and Mrs. A. J. Sharp and Dr. Z. Iwatsuki in the same area.

List of Species²⁾³⁾

1) *Radula anceps* Sande Lacoste, Nederl. Kriudk. Arch. 3: 419 (1850-54). Luzon: Mt. Bulusan; 600-1500 m alt., on boulder, JSZ. 15796; on tree ferns, JSZ. 13705a, 15066.

2) *Radula cavifolia* Hampe, ex G. L. N. Syn. Hep. 259 (1844). Luzon: Mt. Pulog; 2700-2900 m alt., on tree trunk, Z. 223. New to the Philippines.

3) *Radula fauciloba* Steph., Sp. Hep. 4: 188 (1910). Luzon: Mt. Mackiling; 200-900 m alt., on tree trunks, Z. 233, 370; Mt. Pulog; 2200 m alt., on tree trunks, Z. 15934a; Mt. St. Tomas; 1800-2200 m alt., on cliff, Z. 15528. Negros: Mt. Canlaon; 500-1700 m alt., on decaying stump, Z. 16517; on tree trunk, Z. 16532a; on decaying trunk, Z. 14484. New to the Philippines.

1) This work was carried at the Hattori Botanical Laboratory, Nichinan, Miyazaki, from April to September, 1972. Special appreciation is expressed to Dr. S. Hattori and to other members of the laboratory for their help in many ways during my stay there, and to Dr. A. J. Sharp of the University of Tennessee for correction of the English text.

2) The name of collectors are abbreviated as follows: Dr. A. J. Sharp—J; Mrs. A. J. Sharp—S; Dr. Z. Iwatsuki—Z.

3) Duplicate material of most of the collections are also in the herbarium of the University of Tennessee, Knoxville.

4) *Radula formosa* (Meissner) Nees, G. L. N. Syn. Hep. 258 (1844). Negros: Mt. Canlaon; 500-1700 m alt., on tree trunks, JZ. 14492a, 16527; on tree ferns, JZ. 14495a. New to the Philippines.

5) *Radula indica* Steph., Sp. Hep. 6: 511 (1924). Luzon: Mt. Pulog; 2000 m alt., on tree trunks, JZ. 453c, 465, 469. New to the Philippines.

6) *Radula javanica* Gott., G. L. N. Syn. Hep. 258 (1844). Luzon: Mt. Banahao; 800-2300 m alt., on tree trunks, JSZ. 14345. 14345a, 16069; on boulder, JSZ. 14348; on root, JSZ. 14052; Mt. Mackiling; 200-900 m alt., on decaying branch, Z. 334; Mt. Bulusan; 600 m alt., JZ. 15791.

7) *Radula kojana* Steph., Bull. Herb. Boiss. 6: 105 (1897). Luzon: Mt. Banahao; 800-2000 m alt., on rocks, JSZ. 16027, 16084. 16477; on tree trunks, JSZ. 13512.

8) *Radula miqueliana* Tayl., London Journ. Bot. 5: 377 (1846). Negros: Mt. Canlaon; 500-1700 m alt., on tree trunk, JZ. 14458.

9) *Radula obscura* Mitt., Proc. Linn. Soc. 5: 107 (1861). Luzon: Mt. Pulog; 2200 m alt., on tree trunk, JSZ. 15405. New to the Philippines.

10) *Radula paucidens* Steph. ex Castle, Rev. Bryol. Lichénol. 30 (1-2): 39 (1961). Luzon: Mt. Mackiling; 200-900 m alt., on fallen tree, Z. 343; Mt. Banahao; 800-1250 m alt., on rock, JSZ. 16477. Negros: Mt. Canlaon; 500-1700 m alt., on tree trunk, JZ. 16532a.

11) *Radula subpallens* Steph., Sp. Hep. 4: 203 (1910). Luzon: Mt. Banahao; 800-1250 m alt., on leaves of ferns, JSZ. 16080. New to the Philippines.

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服部植物研究所(日南市)とテネッシー大学が協同して行なった 蘚苔類調査の一環として、フィリピンのルソン島とネグロス島で採集された資料の中から 54 袋の *Radula* を検鏡し、11 種の *Radula* を確認した。11 種の内、フィリピンから記録のなかった *Radula cavifolia*, *R. fauciloba*, *R. formosa*, *R. obscura*, *R. subpallens* を認め、フィリピンの苔類フロラに加えた。