Three Unrecorded Muricid Species from Korean Waters

Hyun-Jong Kil, Jun-Sang Lee1 and Dong-Bum Koh2

National Institute of Biological Resources, Incheon 404-708
1Institute of Environmental Research, Kangwon National University, Chunchon 200-701
2JeJu Hanbit Psychiatric Clinic, 560, Samdo-dong, Jeju-shi 690-031

ABSTRACT

The Korean muricid snails are listed include previous record and three unrecorded species, Morula iostoma, Coralliophila morishimai, and C. abnormis collected from Mudo of Jeju-do were redescribed. As a result, the family Muricidae in Korea turned out to be 44 species of 22 genera.

Key words: Muricidae, Morula iostoma, Coralliophila morishimai, Coralliophila abnormis.

INTRODUCTION

Muricid snails are one of the most diverse group among the marine predatory snails and more than 2,500 species are known (Choe and Park, 1997). They are small to large-sized, have highly variable shells of rarely smooth, usually being elaboratey sculptured with spiral and axial ribs. Family Muricidae has been split by many workers into several families and subfamilies. But Ponder and Warén (1988) recognised only the Muricinae, Thaidinae and Coralliophilinae.

Since Adams and Reeve (1848) reported three muricid species for the first time in Korea, Schrenck (1867), Smith (1879), Hirase (1907), Nomura and Hatai (1928), Shibata (1934), Yoo (1959), Kim and Rho (1969), Kang et al. (1971), Kwon et al. (1993), Choe and Park (1997), Lee and Min (2002) have been reported a total of 41 species of 22 genera. However, list of entire species from each papers are not generalized and three unrecorded species are newly found from Jeju-do. As a results, 44 species of 22 genera are listed including previous record and three unrecorded which species are redescribed here.

RESULT

Throughout this study, 44 species of 22 genera including previous records were identified. Among them, Morula iostoma, Coralliophila morishimai, and C. abnormis are new to the Korean fauna and marked with asterisks in the list.

LIST OF SPECIES

Class Gastropoda Cuvier, 1791 복족강
Superorder Caenogastropoda Cox, 1959 신생복족상목
Infraorder Neogastropoda Wenz, 1929 신복족하목
Family Muricidae Rafinesque, 1815 뿔소라과
1. Haustellum sobrinus (A. Adams, 1863) 곤봉뿔소라
2. Chicoreus asianus (Kuroda, 1942) 뿔소라
3. Homalocantha anatomica (Perry, 1811)은행잎뿔고둥
4. Rapana bezoar (Linné, 1767) 좀피뿔고둥
5. Rapana venosa venosa (Valenciennes, 1846) 피뿔고둥
6. Rapana venosa pechiliensis Grabau and Kiong, 1928 황해피뿔고둥
7. Morula spinosa (H. and A. Adams, 1853) 가시뿔고둥
8. Morula iostoma (Reeve, 1845) 보라입실패뿔고둥
9. Muricopsis interserrata (Sowerby, 1879) 작은가시뿔고둥
10. Boreotrophon clathratus gunneri (Loven, 1846) 원통날개지느러미뿔고둥
11. Boreotrophon beringi Dall, 1902 높은탑지느러미뿔고둥
12. Boreotrophon candelabrum (Reeve, 1848) 지느러미뿔고둥

- 329 -
Three Unrecorded Muricid Species from Korean Waters

**Fig. 1.** *Morula iostoma*. A. Ventral view; B. Dorsal view. Scale Bar = 5 mm.

13. *Boreotrophon paucicostatus* Habe and Ito, 1965 넓은지느러미뿔고둥
14. *Boreotrophon xestra xestra* Dall, 1918 긴입술지느러미뿔고둥
15. *Boreotrophon pacificus pacificus* Dall, 1902 지느러미듯고둥
16. *Boreotrophon pacificus aomoriensis* (Nomura and Hatai, 1940) 납작지느러미 moden고둥
17. *Boreotrophon cymatus* Dall, 1902 갈색입지느러미뿔고둥
18. *Boreotrophon alaskanus* Dall, 1902 알라스카지느러미고둥
19. *Nipponotrophon scitulus* (Dall, 1891) 갑자무늬작은고둥
20. *Siphonochelus japonicus* (A. Adams, 1863) 굽등뿔고둥
21. *Ceratostoma burnetti* (Adams and Reeve, 1850) 입뿔고둥
22. *Ceratostoma fournieri* (Crosse, 1861) 새뿔고둥
23. *Ceratostoma rorifluum* (Adams and Reeve, 1850) 백사리
24. *Ceratostoma inornatum* (Récluz, 1851) 어깨무늬고둥
25. *Ocinebra lumaria* (Yokoyama, 1920) 주름어깨뿔고둥
26. *Murex endermonis* E. A. Smith, 1875 납개.bold 고둥
27. *Pteropurpura falcata falcata* (Sowerby, 1841) 대롱뿔고둥
28. *Pteropurpura adunca adunca* (Sowerby, 1834) 납개뿔고둥
29. *Genkaimurex varicosa* Kuroda, 1953 주름뿔고둥
30. *Lataxiena fimbriata* (hinds, 1844) 잔가시뿔고둥
31. *Bedeva birileffi* (Lischke, 1871) 입주름뿔고둥
32. *Ergalatax contracta contracta* (Reeve, 1846) 탑뿔고둥
33. *Maculotriton serrialla serrialla* (Deshayes, 1834) 포마흑점밀알고둥
34. *Mancinella echinata* (Blainville, 1832) 밤송이두드럭고둥
35. *Thais gradata* (Jonas, 1846) 모난어깨두드럭고둥
36. *Thais bronni* (Dunker, 1860) 두드럭고둥
37. *Thais clavigeria* (Kuster, 1860) 대수리
38. *Thais luteostoma* (Holten, 1803) 투두드럭고둥
39. *Necella heyseana* (Dunker, 1882) 염주름고둥
40. *Nucella lamellosa hornica* Dall, 1915 지느러미옆주름고둥
41. *Nucella freycineti freycineti* (Deshayes, 1839) 빨에 염주름고둥
42. *Coralliophila rubroccinea* Melvill and Standen, 1901 담갈색전고리고둥
*43. *Coralliophila morishimai* Kuroda and Shikama, 1966 동범산호살이고둥
*44. *Coralliophila abnormis* (E. A. Smith, 1879) 곰은이 양판주름살이고둥

**DESCRIPTION OF SPECIES**

Class Gastropoda Cuvier, 1791
Superorder Caenogastropoda Cox, 1959
Infraorder Neogastropoda Wenz, 1929
Family Muricidae Rafinesque, 1815
Genus *Morula* Schumacher, 1817

*Morula iostoma* (Reeve, 1845) 보라입실패뿔고둥 (신칭) (Fig. 1).

*Ricinula iostoma* Reeve, 1845, p. 192, sp. 37, pl. V.
**Thiphoris purpuratus** Pilsbry, 1895, p. 58.

**Type locality.** None designated.

**Materials examined.** 2 individuals, 7 October 2003, 12 m in depth, Saekkiseom, Seogwipo-si, Jeju-do (33°13’38.80”N, 126°34’5.6”E).

**Measurement.** 5.8 mm in height; 1.7 mm in width.


**Habitat.** Gravel bottom about 10-50 m in depth.

**Distribution.** Korea, Japan, Philippine.

**Coralliophila morishimai** Kuroda and Shikama, 1966 동범산호살이고둥 (신칭) (Fig. 2).

*Coralliophila abnormis* E. A. Smith, 1878 굵은이랑잔줄 산호살이고둥 (신칭) (Fig. 3).
Three Unrecorded Muricid Species from Korean Waters

Fig. 3. Coralliophila abnormis. **A**. Ventral view; **B**. Dorsal view. Scale Bar = 10 mm.

**Materials examined.** 2 individuals, 16 November 2003, 15 m in depth, Munseom, Seogwipo-si, Jeju-do (33°13'38.6"N, 126°34'4.10"E).

**Measurement.** 33.5 mm in height; 18.0 mm in width.


**Habitat.** Intertidal zone to rocky bottom of 150 m in depth.

**Distribution.** Korea, Japan, Philippines, Indian Ocean.

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