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https://doi.org/10.5109/2553

出版情報：ESAKIA. 32, pp.19-24, 1992-03-31. Entomological Laboratory, Faculty of Agriculture, Kyushu University
バージョン：
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ESAKIA, (32): 19-24. May 31, 1992

Nitidulidae from Chejudo Island [1), 2)]

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Abstract
Collection of the Nitidulidae from Chejudo Is. comprises 11 species, which are all new to the fauna of this island.

NITIDULIDAE

Nitidulinae

1. *Epuraea (Eput-aea) parilis* Reitter, 1873*
(Fig. 1)

Epuraea parilis Reitter, Syst. Eintheil. Nitidul.: 26 & 37 (Japan).

Spec. exam_: 1 ex., Kujwa, Chejudo, Korea, 19. v. 1990, M. T. Chûjô leg.

Gen. Distr.: Korea (mcl. Chejudo Is.) & Japan (Hokkaido, Honshu, Shikoku, Kyushu & Yakushima Is.).

2. *Epuraea (Epuraea) paulula* Reitter, 1873*
(Fig. 2)

Epuraea paulula Reitter, Syst. Eintheil. Nitidul.: 26 & 36 (Japan).

Spec. exam: 1 ex., Ora-dong, Chejudo, Korea, 21. v. 1990, M. T. Chûjô leg.

Gen. distr.: Korea (Chejudo Is.) & Japan (Honshu & Shikoku).

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1) Results from the Korea-Japan Co-operative Science Program on "The Evolution and Biogeography of the Insects in the East Asia". No. 2.

2) Contribution from the Hikosan Biological Laboratory, Faculty of Agriculture, Kyushu University (Ser. 4, No. 4).

* Asterisk shows the species which has hitherto been unrecorded from the island.

3. *Epuraea* (*Micruria*) *mandibularis* Reitter, 1873*

(Fig. 3)

Epuraea mandibularis Reitter, Syst. Eintheil. Nitidul.: 27 & 38 (Japan).

Spec. exam: 1 ex., Cheju Junior College, Chejudo, Korea, 20. v. 1990, M. T. Chûjô leg.

Gen. distr.: Korea (incl. Chejudo Is.); Formosa & Japan (Hokkaido, Honshu, Shikoku, Kyushu, Goto Isls. & Yakushima Is.).

4. *Physoronia hilleri* (Reitter, 1877)*

(Figs. 4A & 4B)

Soronia Hilleri Reitter, Deutsche Ent. Zeitschr., 21: 109-110 (Japan).

Spec. exam: 1 ex., Orimok, Mt. Hallasan, Chejudo, Korea, 27. vii. 1990, M. T. Chûjô leg.

Gen **distr.:** Korea (Chejudo Is.) & Japan (Hokkaido, Honshu, Sado Is., Shikoku, Kyushu, Tsushima Is. & Yakushima Is.).

5. *Pocadites dilatimanus* (Reitter, 1877)*

(Fig. 5)

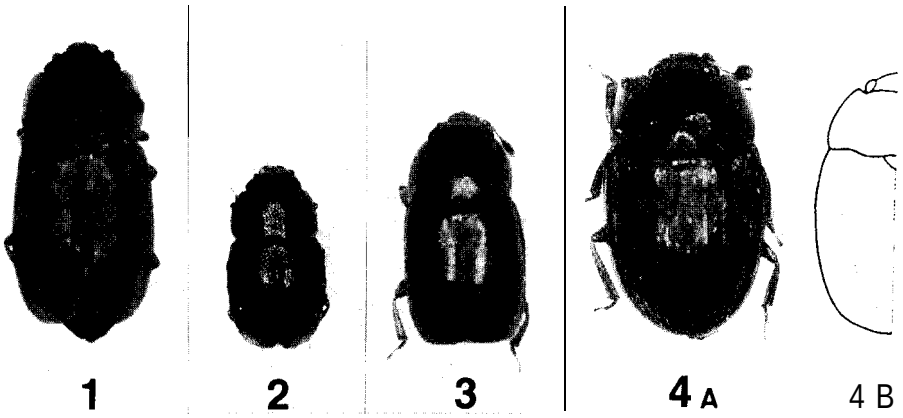
Stelidota dilatimanus Reitter, Deutsche Ent. Zeitschr., 21: 110-111 (Japan).

Spec. exam.: 1 ex., Yongshil, Mt. Hallasan, Chejudo, Korea, 24. vii. 1990, M. T. Chûjô leg.

Gen. **distr.:** Korea (Chejudo Is.) & Japan (Hokkaido, Honshu, Sado Is., Shikoku, Kyushu, Izu Isls., Tsushima Is., Yakushima Is. & Tokara Isls.).

6. *Cyllodes ater* (Herbst, 1892)*

Strongylus ater Herbst, Käf. 4: 188, t. 43, f. 8 (N. & M. Europe). var. *Strongylus atterimus* Reitter, 1879, Deutsche Ent. Zeitschr., 23: 210 (Japan).



Figs. 1-4A,B. 1: *Epuraea (E.) parilis* Reitter; 2: *Epuraea (E.) paulula* Reitter; 3: *Epuraea (Micruria) mandibularis* Reitter; 4A: *Physoronia hilleri* (Reitter); 4B: Left elytral markings of *P. hilleri* (Reitter).

Spec. exam.: 43 exs., Yongshil, Mt. Hallasan, Chejudo, Korea, 24. vii. 1990, M. T. Chûjô leg.; 1 ex., Yongshil, Mt. Hallasan, Chejudo, Korea, 27. vii. 1990, M. T. Chûjô leg.

Gen. **distr.:** Korea (Chejudo Is.); Europe; Caucasus; Siberia & Japan (Hokkaido, Honshu, Shikoku, Kyushu, Izu Isls. & Tokara Isls.).

Note: These specimens were collected with many specimens of another *Cyllodes* species, *literatus* from under the bark of decayed wood *(Quercus crispula* Blume, Fagaceae).

7. *Cyllodes literatus* (Reitter, 1878)*

(Figs. 6A-6D)

Strongylus literatus Reitter, Deutsche Ent. Zeitschr., 22: 89 (Japan).

Spec. exam_: 17 exs., Yongshil, Mt. Hallasan, Chejudo, Korea, 24. vii. 1990, M. T. Chûjô leg.; 2 exs., Yongshil, Mt. Hallasan, Chejudo, Korea, 27. vii. 1990, M. T. Chûjô leg.; 1 ex.(banana trap), Yongshil, Mt. Hallasan, Chejudo, Korea, 27. vii. 1990, M. T. Chûjô leg.

Gen. **distr.:** Korea (Chejudo Is.) & Japan (Honshu, Shikoku & Kyushu).

Note: These specimens were collected with *Cyllodes ater* (Herbst) as mentioned above. The pattern of pronotal and elytral markings are very variable as shown in Figs. 6B-D. A specimen shown in Fig. 6B has well developed pronotal markings and moderately developed elytral markings, Fig. 6C has rather reduced pronotal markings and well developed elytral markings, and 6D has moderately developed pronotal markings and strongly reduced elytral markings.

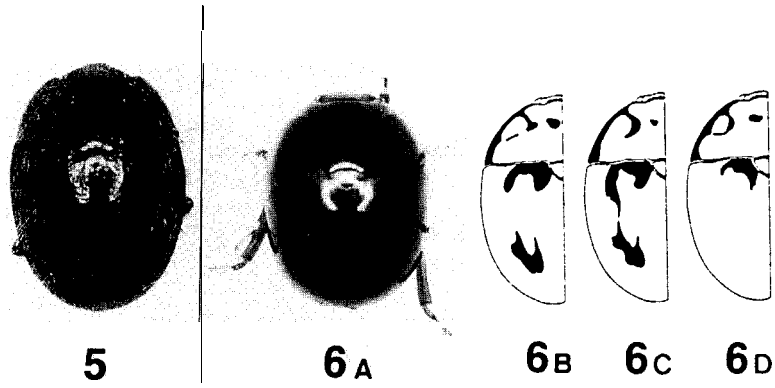
8. *Pallodes cyrtusoides* Reitter, 1884*

Pallodes cyrtusoides Reitter, Nitid. Japans,: 269 (Japan).

Spec. exam.: 10 exs.(light trap), Kaewol Bridge, Chejudo, Korea, 26. vii. 1990, M. T. Chûjô leg.; 1 ex., Kaewol Bridge, Chejudo, Korea, 27. vii. 1990, M. T. Chûjô leg.

Gen. distr.: Korea (incl. Chejudo Is.) & Japan (Honshu, Sado Is., Shikoku, Kyushu, Izu Isls., Tsushima Isls. & Ryukyus).

Note: This species is easily separated from the other species recorded here by lustre brown color and



Figs. 5 & 6A-D. 5: *Pocadites dilatimanus* (Reitter); 6A: *Cyllodes literatus* (Reitter); 6B-D: Individual variation of left dorsal markings of *C. literatus* (Reitter).

hemispherical body. These specimens were collected from fungi of Russulaceae in the night under the light of electric torch.

9. *Neopallodes omogonis* Hisamatsu, 1953*

(Fig. 8)

Neopallodes omogonis Hiiamatsu, Trans. Shikoku Ent. Soc., 3(5-6): 141-142 (Shikoku).

Spec. exam.: 7 exs.(at light), Kaewol Bridge, Chejudo, Korea, 26. vii. 1990, M. T. Chûjô leg.; 54 exs.(at light), Kaewol Bridge, Chejudo, Korea, 27. vii. 1990, M. T. Chûjô leg.

Gen. distr.: Korea (Chejudo Is.) & Japan (Honshu, Shikoku, Kyushu & Tsushima Is.).

Cryptarchinae

10. *Cryptarcha strigata* (Fabricius, 1787)*

(Figs. 7A & 7B)

Nitidula strigata Fabricius, Mant. Ins., 1: 51 (Paraearctic Region).

Spec. exam.: 2 exs.(banana trap), Yongshil, Mt. Hallasan, Chejudo, Korea, 27. vii. 1990, M. T. Chûjô leg.

Gen. **distr.:** Korea (incl. Chejudo Is.); Europe; Siberia; N. America; Formosa &Japan (Hokkaido, Honshu, Sado Is., Shikoku, Kyushu, Tsushima Is., Tanegashima Is., Yakushima Is. & Ryukyus).

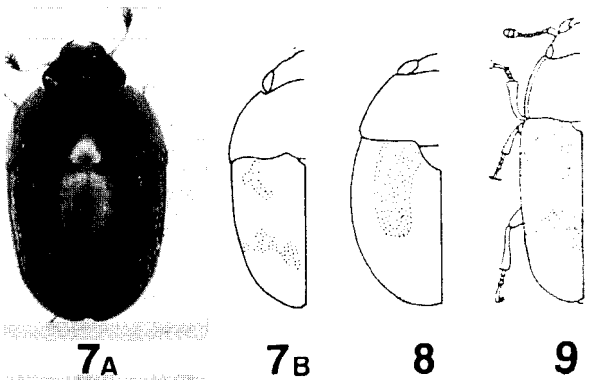
11. *Librodor christophi* (Reitter, 1879)*

(Fig. 9)

Ips Christophi Reitter, Deutsche Ent. Zeitschr., 23: 219 (E. Siberia).

Spec. exam_: 1 ex.(banana trap), Yongshil, Mt. Hallasan, Chejudo, Korea, 27. vii. 1990, M. T. Chûjô leg.

Gen. distr.: Korea (Chejudo Is.); E. Siberia & Japan (Hokkaido, Hoshu, Shikoku & Kyushu).



Figs. 7A,B-9. 7A: *Cryptarcha strigata* (Fabricius); 7B: Left elytral markings of *C. strigata* (Fabricius); 8: Left elytral markings of *Neopallodes omogonis* Hisamatsu; 9: Left elytral markings of *Librodor christophi* (Reitter).

Acknowledgements

We are very greateful to Director Culator Dr. Yoon Kee Kim, Senior Researcher Dr. Seong Jin Kang and Researcher Dr. Sei Ho Jung of Cheju-do Folklore and Natural History Museum, for their kind help on our collecting trip in Chejudo Island. We wish to express our appreciation to Prof. Dr. K. Morimoto, Entomological Laboratory of Kyushu University for his continual kind and valuable guidance. Our cordial thanks are due to Prof. Dr. S. Hisamatsu of Ehime University for his kind advice and offering the reprints of his valuable work. And also we are thankful to Assoc. Prof. Dr. 0. Tadauchi and Assist. Prof. Dr. S. Nomura of Ent. Lab. of Kyushu Univ. for various cooperations for this work.

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Distribution of Chejudoen Nitidulidae

Species \ Localities	Chejudo Island	Mainland of Korea	Japan											Siberia	Caucasus	Europe	Formosa	N. America
			Hokkaido	Honshu	Shikoku	Kyushu	Sadogashima I.	Izu Is.	Goto Is.	Tsushima Is.	Yakushima I.	Tokara Is.	Ryukyus					
Epuraea (Epuraea) pari l is	X	X	X	X	X	X					X							
3. (E.) paulula	X			X	X													
3. (Micruria) mandibularis	X	X	X	X	X	X			X		X							
Physoronia hi l leri	X		X	X	X	X	X											
Pocadi tes di latimanus	X		X	X	X	X	X	X		X	X	X						
Cyl lodes ater	X		X	X	X	X		X				X		X	X	X		
C.l i teralus	X			X	X	X												
Pal lodes cyrtusoides	X	X		X	X	X	X	X		X			X					
Neopal lodes omogonis	X			X	X	X				X								
Cryptarcha strigata	X	X	X	X	X	X	X			X			X	X		X	X	X
Cibrodor christophi	X		X	X	X	X								X				