New Records of Three Anomuran Species
(Crustacea, Decapoda) from Korea

Byung Lae Choe and Hoon Soo Kim
(Kunsan Fisheries Technical Junior College, Department of Zoology, Seoul National University)

Reprinted from the
KOREAN JOURNAL OF ZOOLOGY
Vol. 14, No. 1, 1971
New Records of Three Anomuran Species
(Crustacea, Decapoda) from Korea

Byung Lae Choe* and Hoon Soo Kim**
(*Kunsan Fisheries Technical Junior College, **Department of Zoology, Seoul National University)

Examining the anomuran specimens collected from the coastal seas of Gangweon-do (Province) and Jeonrabug-do (Province), Korea by the present authors in May, 1969 and August, 1970, they found several species which were new to the fauna of Korea. Among them, they describe three species briefly in the present paper. They are deeply grateful to Dr. Sadayoshi Miyake, Faculty of Agriculture, Kyushu University, Japan for his kindness to help them to identify these species and send useful literatures to them.

Family Paguridae Dana, 1852
1. Pagurus cavimanus (Miers, 1878)
Korean name: Ornogson-chamjibge
(Fig. 1 A, B, C, D)

Pagurus cavimanus Miers, 1879, pp. 21, 48,
pl. 3, fig. 1, (Type locality: Japanese seas-Tsugaru strait). —: Balss, 1913, p. 58, fig. 34.

Material examined
5♀ 5♂ (1 ovig.) from Mugho, Gangweon-do (Province) August 25, 1970. All materials were collected with gill nets. In males, length of anterior part of carapace = cl: 14.0~17.0 mm, width of anterior part of carapace = cw: 14.1~17.6 mm, length of eyestalk = el: 6.7~8.2 mm, length of right cheliped = rcl: 75.2~90.8 mm (except broken specimens), length of left cheliped = lcl: 56.2~63.3 mm (except broken specimens), length of right first ambulatory leg = al: 71.9~77.6 mm (except broken specimens); in females,
Description

Carapace with a small acute median frontal lobe. The chelipeds very unequal. The longer (right) cheliped, with the arm very short, triangular and the dilated carpus ornamented with the crest on its dorsal surface. The palm of left cheliped is concave on its outer surface. The first and second pairs of ambulatory legs slender, nearly smooth and with short stiff hairs on their upper and lower margins. The shape of the ophthalmic scales entire and concave.

Fig. 1. *Pagurus cavimanus* (Miller). Male. Scale lines 10 mm.

A. Carapace  B. Right cheliped  C. Left cheliped  D. Right first ambulatory leg.
above. The scaphocerites are long, reaching the tips of the eyes.

Distribution
Korea (East sea); Japan (from Hokkaido to middle of Honshu); Vladivostok; Bering Sea; Alaska (southward and eastward to Portlock Bank and Juneau).

2. *Pagurus gracilipes* (Stimpson, 1858)
Korean name: Nabjag-on-chamjibilge

*Eupagurus gracilipes* Stimpson, 1858, p. 248

(87): 1907, pp. 217-218 (Type locality: Off the coast of Niphon, 38° N, at a depth of 30 fathoms: Hakodadi Bay). — Balss, 1913, p. 76.


Material examined
1♂ (cl: 6.3 mm, cw: 7.0 mm, rel: 35.8 mm, lel: 23.6 mm, al: 41.3 mm) from Gunsan, Jeonbuk-do (Province), in May 26, 1969. 1♂ (cl: 6.6 mm, cw: 6.7 mm, el: 4.1 mm, rcl: 35.3 mm, lel: 22.8 mm, al: 40.4 mm) from Aminja, Gangwon-do (Province), in August 26, 1970.

![Fig. 2. *Pagurus gracilipes* (Stimpson). Male. Scale lines 10 mm.](image-url)
A. Carapace  B. Right cheliped  C. Right first ambulatory leg.
Description

Carapace comparatively convex, rostrum prominent and acute. Eyes very short and thick, ophthalmic scales acute and slightly grooved on its dorsal surface and the margin of it denticulated densely. Right cheliped large and strong, with the palm covered with minute granules. Left cheliped smaller than right one. Two pairs of anterior ambulatory legs slender, and longer than the chelipeds. The dactyli of them very sharp, long and twisted.

Remarks

As Makarov described the merus of right cheliped, it is smooth and has a denticulated anterior edge, and furthermore the authors could observe striae on its dorsal surface and six or seven spines on its anterior edge.

Distribution

Korea (East Sea, Yellow Sea); Japan (from Ha-

Fig. 3. *Pagurus anomalus* (Bak.). Male. Scale lines 10 mm.
A. Carapace  B. Right cheliped  C. Left cheliped  D. Right first ambulatory leg.
kodae to Kyushu); Soviet shores of Japan Sea (Sedemi Bay, Troitsa Bay).

3. Pagurus anomalus (Balss, 1913)
Korean name: Jagenunae-chamjihae
(작은북 임질게)
(Fig. 3. A, B, C, D)

_Eupagurus anomalus_ Balss, 1913, p. 53, fig. 32
(Type locality: Nagasaki). —: Terao, 1914, pp. 499-500, fig. (p. 499). —: Yokoya, 1933, p. 86.
_Pagurus anomalous:_ Makarov, 1938, pp. 196-197 (English, pp. 185-187), pl. 4, fig. 5.

Material examined
12 specimens from Sogcho, Gangweon-do (Province). in August 22, 1970. Measurements — el: 7.3 — 10.9 mm, cw: 8.6 — 13.3 mm, el: 3.1 — 4.7 mm, rd: 32.5 — 50.2 mm, kl: 31.3 — 47.6 mm, al: 52.4 — 51.7 mm (except broken specimens).

Description
Anterior and posterior part of carapace very hard and covered with flat and fused granules, beneath them the short hairs present anteriorly. Ophthalmic scales very small. Chelipeds very small and short, the right cheliped is longer than the left one. The first and second pairs of ambulatory legs much longer than the chelipeds and transverse squamiform striae present on their surfaces. The abdomen is very small and the animal stuffs only the abdomen into the shell.

Distribution
Korea (East Sea): Japan (from Tsugaru Strait to Nagasaki, Kyushu); Soviet shores of Japan Sea (from De Kastri Bay to Furuhelm Island).

SUMMARY
Three anomuran species (Crustacea. Decapoda).

_Pagurus cavimanus_ (Miers). _P. gracilipes_ (Stimpson) and _P. anomalus_ (Balss) were collected from the coastal seas of Gangweon-do (Province) and Jeonrugdo (Province) in May, 1969 and August, 1970 and described as the additional species to the fauna of Korea.

REFERENCES

Stimpson, W., 1873. _Prodromus: Descriptiones Animalium Evertebratorum, quae in Expeditione ad Oceanum Pacificum Septentrionale._ VII. Crustacea Anomoura. _Proc. Ac...

