Six Pandalid Shrimps of the Genus *Plesionika* (Crustacea: Decapoda: Caridea) in Korea

Jung Nyun Kim1,*, Jung Hwa Choi2, Jeong-Hoon Lee1, Joo Il Kim1

1Southeast Fisheries Research Institute, National Fisheries Research and Development Institute, Tongyeong 650-943, Korea
2Fisheries Resources Management Division, National Fisheries Research and Development Institute, Busan 619-705, Korea

**ABSTRACT**

Based on samples collected from the Korean Exclusive Economic Zone (EEZ) during an investigation of fishery resources by the National Fisheries Research and Development Institute (NFRDI) from 2002 to 2010, alongside some supplemental material, six species of the genus *Plesionika* are identified: *P. izumiae* Omori, 1971, *P. ortmanni* Doflein, 1902, *P. grandis* Doflein, 1902, *P. lophotes* Chace, 1985, *P. narval* (Fabricius, 1787), and *P. orientalis* Chace, 1985. Of these, the last four species are new to Korean marine fauna. The distributional range of *P. narval* extends to the East China Sea off Jeju Island. Excluding *P. izumiae* and *P. ortmanni*, the other four species are relatively rare in the seas around Korea. They are described and illustrated with color photographs. A key to the Korean species of *Plesionika* is also presented.

**Keywords:** *Plesionika grandis*, *Plesionika izumiae*, *Plesionika lophotes*, *Plesionika narval*, *Plesionika orientalis*, *Plesionika ortmanni*, Pandalidae, Korea

**INTRODUCTION**

The genus *Plesionika* includes 92 species, which are most abundant in the family Pandalidae (see De Grave and Fransen, 2011). *Plesionika* shrimps occur in virtually all tropical and subtropical waters and in some temperate seas (Chace, 1985), but most species of the genus can be found in the Indo-West Pacific (Li, 2006b). In Korean waters, only two species, *Plesionika izumiae* Omori, 1971 and *P. ortmanni* Doflein, 1902 have been previously reported (Cha et al., 2001).

Recently, the National Fisheries Research and Development Institute (NFRDI) carried out a number of expeditions to investigate fishery resources in the Korean Exclusive Economic Zone (EEZ in 2001-2010). Six species of *Plesionika*, *P. grandis* Doflein, 1902, *P. izumiae* Omori, 1971, *P. lophotes* Chace, 1985, *P. narval* (Fabricius, 1787), *P. orientalis* Chace, 1985, and *P. ortmanni* Doflein, 1902, were collected close to Jeju Island, Korea. Excluding *P. izumiae* and *P. ortmanni*, these are rare in Korean waters, particularly *P. narval*, of which this was the first record from the East China Sea. This report was to provide morphological descriptions and color-illustrations for these six species of *Plesionika*. A key was provided for their identification.

**MATERIALS AND METHODS**

The specimens examined in this study were deposited in the NFRDI. The sampling data for the *Plesionika* species are shown in Table 1. Sampling gear comprised bottom otter trawls (mesh size at the cod end 0.98 × 0.98 mm). A net with otter boards was towed during daytime for 30-60 min at a mean 3.4 knot. All the samples were frozen on board shortly after capture and maintained at −80°C until laboratory identification. Before identification, photographs were taken of samples, which were then preserved with 70-90% ethyl alcohol.

Carapace length (CL), which measures from the posterior margin of the orbit to the posterior middorsal margin of the carapace, is used to indicate the size of the specimens. The terminology used within descriptions mainly follows that of Chace (1985). Species are arranged in alphabetical order.
 systematics

Order Decapoda Latreille, 1802
Infraorder Caridea Dana, 1852
Family Pandalidae Haworth, 1825
Genus Plesionika Bate, 1888

Plesionika grandis Doflein, 1902 (Figs. 1, 7A)
Plesionika spinipes var. grandis Doflein, 1902: 618, Pl. 3, figs. 3-5 (type locality: Japan, Sagami Bay).
Parapandalus spinipes: De Man, 1920: 142, Pl. 12, fig. 33a, c-e, Pl. 13, fig. 33, 33b (non Bate, 1888).


Description. Rostrum (Fig. 1A) moderately curving dorsally, 1.4-1.7 times as long as carapace; dorsal margin with 37-44 teeth, including 6 on carapace, 2 posteriormost teeth with distinct basal sutures; ventral margin with 21-24 teeth. Carapace (Fig. 1A) with orbital margin slightly convex in ventral part, regularly concave elsewhere; antennal spine strong, pterygostomian spine weak. Abdomen (Fig. 1B) smooth and rounded dorsally; pleura of fourth and fifth somites each with posterodorsal tooth; sixth somite 1.7-1.9 times as long as maximum height. Telson (Fig. 1B) usually 1.3-1.4 times as long as sixth abdominal somite, with 3 pairs of small dorsolateral spines; posterior margin ending in minute median tooth, bearing 3 pairs of marginal spines. Eye (Fig. 7A) subpyriform, maximum diameter more or less than 0.2 carapace length; cornea broader than eyestalk. Antennal peduncle (Fig. 1A) with stylocerite acute, barely overreaching distal margin of first antennular segment. Antennal scale (Fig. 1C) 3.9-4.1 times as long as wide; distolateral tooth overreaching rounded blade. Third maxillipend slimmer, overreaching distal margin of antennal scale by entire ultimate segment and anterior 0.1 penultimate segment, without epipods; penultimate segment 1.6 times as long as ultimate segment. Pereopods without epipods; not extremely slender or thread-like. Second pereopod (Fig. 1D) subequal; carpi with 22-23 articles. Third pereopod (Fig. 1E) overreaching antennal scale by slightly more than lengths of distal 3 segments; dactylus usually about 0.2-0.3 times as long as propodus; 3 distal segments combined 1.4-1.9 times as long as carapace; merus with 11-13 lateral and 4-5 ventral spines.

Coloration. Body generally pinkish and slightly transparent, with 4 very narrow longitudinal red stripes on abdomen, 3 oblique on carapace, branchial region of carapace deep red; rostrum pinkish with margins red; pereopods with proximal segments somewhat whitish but becoming red distally (Fig. 7A).

Distribution. Indo-West Pacific: Korea, Japan, East and South China seas, Philippines, Indonesia, northwestern Australia, Zanzibar area of eastern Africa and Madagascar; 92-375 m.

Remarks. This species is a member of the Plesionika narval

Table 1. List of sampling data for the Plesionika species addressed

<table>
<thead>
<tr>
<th>Station</th>
<th>Position</th>
<th>Depth (m)</th>
<th>Date</th>
<th>Ship</th>
</tr>
</thead>
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<tr>
<td>2002 I-Tr-8</td>
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<td>65</td>
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<td>95</td>
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</tr>
<tr>
<td>2003 I-Tr-4</td>
<td>34°00.1′N, 123°11.9′E</td>
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<td>Mar 23, 2003</td>
<td>RV Tamgu 1</td>
</tr>
<tr>
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<td>33°41.3′N, 126°34.1′E</td>
<td>123</td>
<td>Apr 3, 2003</td>
<td>RV Tamgu 1</td>
</tr>
<tr>
<td>2003 I-Tr-13</td>
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<td>142</td>
<td>Apr 5, 2003</td>
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<td>2003 II #243</td>
<td>32°57.0′N, 126°36.1′E</td>
<td>100</td>
<td>Dec 3, 2003</td>
<td>RV Tamgu 1</td>
</tr>
<tr>
<td>2004 I #232</td>
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<td>111</td>
<td>Apr 24, 2004</td>
<td>RV Tamgu 1</td>
</tr>
<tr>
<td>2004 I #239</td>
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<td>Apr 18, 2004</td>
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<tr>
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<td>RV Tamgu 1</td>
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<tr>
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<td>71</td>
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<td>RV Tamgu 20</td>
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species-group that was revised by Chan and Crosnier (1991). The species-group is characterized by the rostrum being very long and armed with numerous closely set teeth along almost the entire length of both margins. They also subdivided the species-group into two subgroups (namely the “spinipes” subgroup and the “narval” subgroup) by the presence or absence of a posterovertral tooth of the fifth abdominal pleuron. Based on this classification, *P. grandis* belongs to the “spinipes” subgroup.

1*Plesionika izumiae* Omori, 1971 (Figs. 2, 7B)  
*Plesionika izumiae*?: Chace, 1985: 75, fig. 34.  

**Material examined.** Korea: Jeju-do: 1 ovig. ♀ (CL 12.1 mm), 2002 I-Tr-8, west of Jeju Island, 14 Mar 2002; 2 ♀♀ (CL 7.2, 7.2 mm), 2003 I-Tr-4, west of Jeju Island, 23 Mar 2003.  
**Description.** Rostrum (Fig. 2A) noticeably curving dorsally, 1.5-1.7 times as long as carapace; dorsal margin with 11-13 teeth, including 4 on carapace, 5-7 posteriormost teeth movable; ventral margin with 13-14 teeth. Carapace (Fig. 2A) with orbital margin convex in ventral part, rather regularly concave in dorsal half; strong antennal and weak pterygos-
tomian spines present. Abdomen (Fig. 2B) rounded dorsally; pleura of fourth and fifth somites with posteroventral tooth; sixth somite 1.7 times as long as maximum height. Telson (Fig. 2B) 1.4 times as long as sixth abdominal somite, with 3 pairs of dorsolateral spinules, posterior margin with 3 pairs of spines. Eye (Fig. 2A) moderately large, maximum diame-
ter about 0.2 carapace length. Antennular peduncle (Fig. 2A) with stylocerite sharp, reaching distal margin of first antennular segment. Antennal scale (Fig. 2C) 4.2 times as long as wide, distolateral tooth falling distinctly short of distal margin of blade. Third maxilliped overreaching antennal scale by half of ultimate segment, penultimate segment 0.7 as long as ultimate segment, with epipod. Pereopods with prominent epipods on 4 anterior pairs; not extremely slender or thread-like. Second pereopods very unequal; left (Fig. 2D) overreaching antennal scale by distal 3 segments, with 83-117 carpal articles; right (Fig. 2E) reaching distal margin of antennal scale, with 18-24 carpal articles. Third pereopod (Fig. 2F) overreaching antennal scale by dactylus and half of propodus; dactylus about 0.5 times as long as propodus; 3 distal segments combined nearly 1.3 times as long as carapace; merus with 10-12 lateral and 4-8 ventral spines.

**Coloration.** Body light reddish brown, red bands on branchial region of carapace, dorsal part of third abdominal somite, margins of first and third abdominal pleura (Fig. 7B).

**Distribution.** Korea, Japan, South and East China seas, Philippines; 17-200 m.

**Remarks.** This species is very common in the East China Sea and the northern part of the South China Sea and adjacent waters (Li, 2006b).

1° **Plesionika lophotes** Chace, 1985 (Figs. 3, 7C)

*Plesionika binocularis*: De Man, 1920: 134, Pl. 12, fig. 30; Hayashi and Koike, 1976: 47, fig. 1a′-e′ (non Bate, 1888).

*Plesionika lophotes* Chace, 1985: 81, fig. 37 (type locality: Samar Sea between southeastern Masbate and Almagro Island, Philippines, 11°57′27″N, 124°10′42″E, 245 m); Hayashi, 1986: 135, 272, fig. 85; Hanamura and Takeda, 1987: 111; Miyake, 1998: 61, Pl. 21, fig. 3; Chan, 2004: 307, figs. 6, 15.


**Description.** Rostrum (Fig. 3A) remarkably curving dorsally, 1.5 times as long as carapace; dorsal margin with 14 teeth, including 5-6 on carapace, all teeth on carapace with distinct basal sutures and movable; ventral margin with 13-18 teeth. Carapace (Fig. 3A) with orbital margin convex in ventral part, rather deeply concave posteriorly, become nearly straight dorsally; antennal spine much stronger than pterygostomian spine. Abdomen (Fig. 3B) smooth and rounded dorsally; pleura of fourth and fifth somites with small marginal tooth posteriorly; sixth somite 1.5 times as long as maximum height. Telson (Fig. 3B) 1.6 times as long as sixth abdominal somite; dorsolateral margin with 4 pairs of small spine; posterior margin with 3 pairs of spines. Eye (Fig. 3A) broadly subpyriform, maximum diameter about 0.2 carapace length. Antennular peduncle (Fig. 3A) with stylocerite sharply acute, distinctly overreaching distal margin of first antennal segment. Antennal scale about 3.4 times as long as wide, distalateral tooth falling short of distal margin of blade. Third maxilliped overreaching distal margin of antennal scale by half of ultimate segment, with epipod; penultimate segment about 0.7 as long as ultimate segment. Pereopods with epipods on 4 anterior pairs; not extremely slender or thread-like. Second pereopods unequal, left (Fig. 3C) overreaching antennal scale by distal 3 segment and anterior 0.3 of mesus, with 147 carpal articles, right (Fig. 3D) overreaching antennal scale by entire chela and anterior 0.7 of carpus, with 40 carpal articles. Third pereopod (Fig. 3E) overreaching antennal scale by dactylus and half of propodus; dactylus about 0.3 times as long as propodus; 3 distal segment combined about 1.1 times as long as carapace; carpus with 3 lateral spines; merus 12 lateral and 6 ventral spines.

**Coloration.** Body light reddish orange, with large red circles margined by white on third abdominal somite; carapace and anterior abdomen with scattered white dots; thoracic appendages, antennal and antennal flagella with bands of red and white (Fig. 7C).

**Distribution.** Indo-West Pacific: Korea, Japan, Philippines, Vietnam, Madagascar, southern Arabia, South Africa; 105-329 m.

**Remarks.** Chan (2004) revised the “*P. lophotes*” species group examining two Korean specimens of *P. lophotes* from the southern waters of Jeju Island. The species is characterized by its relatively large body size, very high basolateral crest, the high number of the rostral teeth along both the dorsal and ventral margins, and the long dactyli on the posterior three pairs of pereopods.

1° **Plesionika narval** (Fabricius, 1787) (Figs. 4, 7D)

*Astacus narval* Fabricius, 1787: 331 (type locality: probably Nice, Mediterranean).

*Parapandalus serratifrons*: De Man, 1920: 146, Pl. 12, fig. 34a, c, Pl. 13, fig. 34, 34b, d, e (non Borradaile, 1900).

*Parapandalus spinipes*: Kubo, 1965: 611, fig. 958 (non Bate, 1888).

*Parapandalus narval*: Crosnier and Forest, 1973: 221, fig. 69a; Crosnier, 1976: 235, fig. 4b.

*Plesionika serratifrons*: Chace, 1985: 121, figs. 55, 56; Hayashi, 1986: 139, 274, fig. 89 (non Borradaile, 1899).

*Plesionika narval*: Lemaitre and Gore, 1988: 385, figs. 3k-m.

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Korean name: 1° 큰점꼬마도화새우 (신칭), 2° 흰줄꼬마도화새우 (신칭)
Material examined. Korea: Jeju-do: 1 ♀ (CL 16.5 mm), 1 ovig. ♀ (CL 15.1 mm), 2004 I #232, south of Jeju Island, 24 Apr 2004; 1 ♂ (CL 11.3 mm), 2008 I #229, west of Jeju Island, 21 Apr 2008.

Description. Rostrum (Fig. 4A) slightly curving dorsally, elongate, 2.2-2.3 times as long as carapace; dorsal margin with 58-60 serrated teeth, including 5 on carapace, all teeth on carapace with distinct basal sutures and movable; ventral margin with 41-44 serrated teeth. Carapace (Fig. 4A) with orbital margin slightly truncate in dorsal end; strong antennal and weak pterygostomian spines present. Abdomen (Fig. 4B) smooth and rounded dorsally; pleuron of fourth somite rounded, that of fifth somites with small marginal tooth posteriorly; sixth somite 1.8 times as long as maximum height. Telson (Fig. 4B) about 1.1 times as long as sixth abdominal somite; dorsolateral with 3 pairs of dorsolateral spinules, posterior margin with 3 pairs of spines. Eye (Fig. 4A) broadly subpyriform, maximum diameter about 0.2 carapace length. Antennular peduncle (Fig. 4A) with stylus of setae tapered anteriorly, falling short of distal margin of first antennular segment. Antennal scale (Fig. 4C) much slender, about 5.4 times as
long as wide, distolateral tooth reaching beyond distal margin of blade. Third maxilliped (Fig. 4D) slender, overreaching distal margin of antennal scale by ultimate segment and anterior 0.2 of penultimate segment, with epipod; penultimate segment about 1.7 as long as ultimate segment. Pereopods without epipod; not extremely slender or thread-like. Second pereopods (Fig. 4E) subequal, overreaching antennal scale by distal 2 segments and half of carpi; carpi with 27-29 articles. Third pereopod overreaching antennal scale by distal 3 segments; merus with 12 lateral and 2-4 ventral spines. Fourth pereopod with merus bearing 13 lateral and 1 ventral teeth. Fifth pereopod with merus bearing 11 lateral and 3 ventral spines.

**Coloration.** Body transparent whitish or somewhat pink-red, with one subdorsal and one lateral red-margined white stripe; rostrum red with margins somewhat paler in color; pereopods red distally and pink proximally (Fig. 7D).

**Distribution.** Indo-West Pacific from Madagascar to Polynesia, Japan, Korea, and Mediterranean, East Atlantic coast from Gibraltar to Cape Verde Islands, South Atlantic, Red Sea; 35-910 m.

**Remarks.** The present specimens agree with the diagnosis of Chan and Crosnier (1991). This is the first time that *P. narval* has been reported with certainty in the East China Sea as well as Korean waters. *Plesionika narval* differs from the Korean congeners due to following character combination: the closely set teeth and serrate dorsal rostral margin, a marginal tooth on the fourth abdominal pleuron, a strap-like epipod on the third maxilliped, and no epipod on the pereopods.

*Plesionika orientalis* Chace, 1985 (Figs. 5, 7E)
*Plesionika semilaevis* Bate, 1888: 644 (part).
*Plesionika martia orientalis* Chace, 1985: 84, figs. 38, 39, 53, 54 (type locality: Sulu Archipelago between Jolo and Tavitawi Islands, 5°48’00″N, 120°33’45″E, 490 m); Han-

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Korean name:dongbangguyaeb.empak (신칭)
mura and Takeda, 1987: 111, fig. 3a, b; Takeda and Hanamura, 1994: 21, fig. 9; Li, 2006b: 115.
Plesionika orientalis: Hanamura and Evans, 1996: 14; Li and Davie, 2006: 161; Li, 2006c: 1288, fig. 3.

Material examined. Korea: Jeju-do: 1 ♀ (CL 17.5 mm), 2004 I #239, west of Jeju Island, 18 Apr 2004; 1 ♂ (CL 12.0 mm), 2010 II #220, northwest of Jeju Island, 13 Nov 2010.

Description. Rostrum (Fig. 5A) moderately curving dorsally, elongate, 2.2 times as long as carapace; dorsal margin, on basal crest only, with 8 teeth, including 3 on carapace, all teeth on partial basal sutures; ventral margin with 42 serrated teeth. Carapace (Fig. 5A) with orbital margin convex in ventral part, nearly vertical posteriorly; antennal and pterygostomian spines prominent. Abdomen (Fig. 5A) smooth and rounded dorsally; pleura of first to fifth somites without distinct marginal tooth or denticle; sixth somite about 2.2 times as long as maximum height. Carapace (Fig. 5A) with orbital margin convex in ventral part, nearly vertical posteriorly; antennal and pterygostomian spines prominent. Abdomen (Fig. 5B) smooth and rounded dorsally; pleura of first to fifth somites without distinct marginal tooth or denticle; sixth somite about 2.2 times as long as maximum height. Telson (Fig. 5B) subequal to sixth abdominal somite in length; dorsolateral margin with 3 pairs of spines; posterior margin with minute median tooth, flanked by 2 pairs of spines. Eye (Fig. 5A) very broadly subpyriform, maximum diameter about 0.25 carapace length. Antennular peduncle (Fig. 5A) with styluscere blunty acute, slightly reaching beyond distal margin of first antennular segment. Antennal scale (Fig. 5B) 5.0 times as long as wide; distolateral tooth slightly falling short of distal margin of blade. Third maxilliped (Fig. 5D) overreaching distal margin of antennal scale by anterior 0.3 of ultimate segment, with epipod, well developed exopod present; penultimate segment 1.3 times as long as ultimate segment. Pereopods with epipods on 4 anterior pairs, not extremely slender or thread-like. Second pereopods (Fig. 5E) subequal, reaching distal margin of antennal scale, carpi with 18-21 articles. Third pereopod overreaching antennal scale by lengths of dactylus, propodus, and anterior 0.7 of carpus; merus with 11-15 lateral spines. Fourth and fifth pereopods each with merus bearing 8 and 6-7 lateral spines, respectively.

Coloration. Body transparent whitish or somewhat pinkish tinge, with numerous small spots on carapace and abdominal margins; distal parts of rostrum, antennular flagella and third maxilliped red (Fig. 7E).

Distribution. Korea, Japan, East and South China seas, Philippines, Indonesia; 66-686 m.

Remarks. The specimens agree well with Chace’s (1985) original description and illustrations, and Li’s (2006c) illustration from the East China Sea especially in terms of the basicerite of the antenna with the small and short distoventral tooth (Fig. 5A, C).
**Plesionika ortmanni** Doflein, 1902 (Figs. 6, 7F)

*Plesionika ortmanni* Doflein, 1902: 616, Pl. 3, fig. 2, 2a (type locality: Japan, Sagami Bay); Balss, 1914: 30, fig. 14; Fujino and Miyake, 1970: 261, fig. 8; Chace, 1985: 92, fig. 41; Hayashi, 1986: 137, 273, fig. 87; Cha et al., 2001: 138, 2 unnumbered figs.; Li and Komai, 2003: 267; Li, 2006a: 370; 2006b: 115; 2006c: 1289.


**Material examined.** Korea: Jeju -do: 3 ♀ (CL 13.7-17.2 mm), 1 ovig. ♀ (CL 16.4 mm), 2002 II-Tr-11, north of Jeju Island, 29 Oct 2002; 1 ♀ (CL 13.8 mm), 2003 I-Tr-12, north of Jeju Island, 3 Apr 2003; 2 ♀♂ (CL 14.1, 16.5 mm), 2003 II #243, south of Jeju Island, 3 Dec 2003.

**Description.** Rostrum (Fig. 6A) rather curving dorsally, 1.5-1.6 times as long as carapace; dorsal margin with 17-18 teeth, including 3-4 on carapace, all teeth with partial or complete basal sutures; ventral margin with 6-9 teeth. Carapace (Fig. 6A) with orbital margin slightly convex in ventral part, rather regularly concave elsewhere; antennal spine strong, pterygostomian spine rather weak. Abdomen (Fig. 6B) without carina or projection dorsally; pleuron of fifth somite with posteroventral tooth; sixth somite 1.5 times as long as maximum height. Telson (Fig. 6B) 1.5 times as long as sixth abdominal somite; dorsolateral margin with 3 pairs of spinules; posterior margin with 3 pairs of spines. Eye (Fig. 6A) subpyriform, maximum diameter barely 0.2 carapace length. Antennular peduncle (Fig. 6A) with stylocerite sharply point anteriorly, reaching distal margin of first antennular segment. Antennal scale (Fig. 6C) 4.3-4.4 times as long as wide, distolateral tooth reaching narrow distal margin of blade. Third maxilliped overreaching distal margin of antennal scale by entire ultimate segment and anterior 0.2 of penultimate segment, with epipod; penultimate segment 1.4 as long as ultimate segment. Pereopods with prominent epipods on 4 anterior pairs; not extremely slender or thread-like. Second pereopods (Fig. 6D) subequal, overreaching entire chelae and half of carpi; carpi with 28-33 articles. Third pereopod (Fig.

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Korean name: 긴줄꼬마도화새우

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6E) overreaching antennal scale by lengths of distal 3 segments; dactylus about 0.5 times as long as propodus; 3 distal segments combined nearly 2.0 times as long as carapace; merus with 8-12 lateral and 8 ventral spines.

**Coloration.** Body light reddish brown. 1 prominent white line from branchiostegal region of carapace obliquely backward through lateral surface of first to sixth abdominal somites and another white line from lateral surface of posterior half of third abdominal somite to end of telson, with rather broad red line ventrally (Fig. 7F).

**Distribution.** Korea, Japan, East and South China seas, Philippines, Indonesia; 29-400 m.

**Remarks.** This species is easily distinguished from the Korean congeners due to its diagnostic white line from the branchiostegal region of the carapace to the lateral surface of the sixth abdominal somite.

**Key to Korean species of Plesionika**

1. Rostrum with dorsal margin armed with closely set teeth, serrate; pereopods without strap-like epipods on coxae
2. Fourth abdominal somite with marginal tooth on pleuron; third maxilliped without epipod

\[ \text{P. grandis} \text{ Doflein, 1902} \]

3. Fourth and fifth abdominal somites each with marginal tooth on pleuron

\[ \text{P. lophotes} \text{ Chace, 1985} \]

4. Posterior teeth of dorsal rostral series forming distinct crest dorsal and posterior to orbit

\[ \text{P. izumiae} \text{ Omori, 1971} \]

5. Rostrum armed ventrally with fewer than 20 rather widely spaced teeth; fifth abdominal somite with posteroventral denticle on pleuron

\[ \text{P. ortmanni} \text{ Doflein, 1902} \]

\[ \text{P. orientalis} \text{ Chace, 1985} \]

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REFERENCES


