# A new species of the subgenus Javanisomysis in the genus Anisomysis Hansen, 1910 (Mysida, Mysidae) from a sandy beach in Bali, Indonesia 

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#### Abstract

Mysid specimens reported under Anisomysis thurneysseni Nouvel, 1973 by Fukuoka et al. (2002) were re-examined and re-assessed taxonomically. These specimens consistently differ from the original description of A. thurneysseni by Nouvel (1973) on (1) the length of the fourth male pleopod, (2) the arrangement of apical spines on the telson, (3) the articulation in some thoracopodal endopods in both sexes, and (4) the form of the frontal carapace plate. The species is also clearly separable from $A$. (J.) gutzui Băcescu, 1992 and $A$. (J.) similis Sawamoto et al., 2015 on the fourth male pleopod and the articulation in several thoracopodal endopods in both sexes. The species thus is considered a new species of the subgenus Javanisomysis.


Key words: Mysida, Crustacea, Mysidae, Anisomysis (Javanisomysis), new species, A. (J.) baliensis.

## Introduction

The genus Anisomysis was established by Hansen (1910) to describe Anisomysis laticauda collected during the Siboga Expedition. The genus was later divided by Băcescu (1973) into two subgenera, Paranisomysis and Anisomysis, based mainly on the structure of mandibular palp. Furthermore, Băcescu (1992b) provisionally created the subgenus Javanisomysis. This subgenus was recently redefined and reinstated under the genus Anisomysis by Sawamoto, Srinui and Moriya (2015) so as to provide a combination of following morphological characteristics: (1) the carapace armed with spinules on the anterolateral margin, (2) the first segment in the fourth male pleopodal exopod as long as or slightly shorter than the third segment, excluding the terminal setae, and (3) the telson with basally
un-articulated denticles on the lateral margin.
Murano and Fukuoka (2003) studied the taxonomy of the genus Anisomysis, in which they created a fourth subgenus, Pseudanisomysis, to accommodate Carnegieomysis xenops (Tattersall, 1943) and other few species that have the eye divided into two parts by a groove. However, Pseudoanisomysis is considered a junior synonym of the subgenus Carnegieomysis W. Tattersall, 1943 (see the Board of Editors of Crustaceana, 2015 DOI 10.1163/15685403-00003486). Thus the genus Anisomysis is currently regarded to contain the four subgenera, Anisomysis, Paranisomysis, Javanisomysis and Carnegieomysis.

Fukuoka, Hanamura and Murano (2002) reported an interesting species similar to Anisomysis (Anisomysis) thurneysseni Nouvel, 1973 from Bali Island, Indonesia. A. thurneysseni shows typical morphological characteristics of
the subgenus Javanisomysis, and is accommodated in this subgenus (see Sawamoto et al., 2015). The specimens of Fukuoka et al. (2002) appeared to be different from the original description of Nouvel (1973) in certain features, i.e. (1) the fourth male pleopod fully reaching the base of the telson, and (2) an indistinctly articulated and regularly arranged apical spines on the telson. The Balinese specimens studied by Fukuoka et al. (2002) were examined and compared with other known congeners of the subgenus Javanisomysis, A. (J.) gutzui, A. (J.) similis and $A$. (J.) thurneysseni. Our analysis reached is the recognition of a fourth species in the subgenus from a sandy coast of Bali, Indonesia.

## Methods

Body length was measured from the tip of the rostrum to the distal end of the telson excluding apical denticles with a micrometer installed on the eyepiece. Illustrations were made with the aid of a camera lucida, in which marginal setae of some appendages, especially the antennal scale, thoracopodal exopods and uropod, were omitted. Terminology was based mainly on Wittmann, Ariani and Lagardère (2014).

Specimens examined in this study are lodged at the National Museum of Nature and Science, Tsukuba, Japan (NSMT).

## Taxonomy

Family Mysidae
Subfamily Mysinae
Tribe Anisomysini
Genus Anisomysis
Subgenus Javanisomysis Băcescu, 1992

Genus Javanisomysis Băcescu, 1992a: 20, Fig. 1A-G; Murano and Fukuoka, 2003: 66; Sawamoto and Fukuoka, 2005: 86 (in list); Sawamoto, 2014: 6 (in list).
Subgenus Javanisomysis Băcescu, 1992b: 79-86, Figs. 1A-N, 2A-H; Sawamoto, Srinui and Moriya, 2015: 814-816.

Type species: Javanisomysis gutzui Băcescu, 1992a.

Diagnoses. Eyes globular, not divided into 2 portions. Carapace with spinules along anterolateral margin. Antennular peduncle having neither expanded lobe nor finger-like process on second segment. Second segment of mandibular palp foliate, without prominent triangular processes armed with subterminal seta. First segment of fourth male pleopodal exopod as long as or slightly shorter than third segment, excluding terminal barbed setae. Telson short, linguiform, denticles on lateral margin un-articulated. Other features typical for species of genus Anisomysis.

Anisomysis (Javanisomysis) baliensis sp. nov.
(Figs. 1-4)
Anisomysis thurneysseni: Fukuoka, Hanamura and Murano, 2002: 43, Fig. 1O, P (not Nouvel, 1973).

Material examined. Holotype (NSMT-Cr 25563), adult male (BL 2.8 mm ); allotype (NSMT-Cr 25564), adult female (BL 2.6 mm ); paratypes (NSMT-Cr 25565), 3 males (BL 2.52.6 mm ; dissected male, BL 2.6 mm ), 8 females (BL $2.3-2.7 \mathrm{~mm}$; dissected female, BL 2.6 mm ), 1 juvenile (BL 2.1 mm ), Tasman Sar, Pejamantan Bay, Bali Island, Indonesia, sandy beach, 4 Dec. 1996, coll. Y. Ogawa and Y. Hanamura.

Description. Tegmen of body smooth. Anterior margin of carapace broadly triangulate or rounded, partly covering basal part of eye-stalk (Fig. 1C, D). Carapace with spinules on anterolateral margin (Fig. 1A-D), rounded at anteroventral corner, hardly covering basal parts of maxillule and maxilla anteriorly, and leaving uncovered last thoracic somite postero-dorsally (Fig. 1A, B). Eye large, cornea globular, not concealed by anterior part of carapace except for proximal part of eye-stalk (Fig. 1C, D). Antennular peduncle more robust in male than in female (Fig. 1C, D), second segment shortest in both sexes; first and second segments with minute dorsal projection with setae; first and third segments with setae at antero-lateral corner (Fig.


Fig. 1. Anisomysis (Javanisomysis) baliensis, sp. nov. Holotype, male (BL 2.8 mm : A, C, E), allotype, female (BL $2.6 \mathrm{~mm}: \mathrm{B}, \mathrm{D}, \mathrm{F}$ ), paratype, male (BL $2.6 \mathrm{~mm}: \mathrm{H}-\mathrm{N}$ ) and female (BL $2.6 \mathrm{~mm}: \mathrm{G}$ ). A, B, lateral view of whole body; C, dorsal view of anterior body, left antennular peduncle enlarged; D , dorsal view of anterior body, left antero-lateral margin of carapace enlarged; E, F, ventral view of antenna; G, external view of labrum; H, external view of mandibles with palps; I, external view of mandibles enlarged; J, right maxillule; K, right maxilla; L, right first thoracopod; M , right first thoracopodal endopod, terminal claw enlarged; N , right first thoracopodal endopod. Scale bar 0.5 mm for A, B; 0.4 mm for C, D; 0.2 mm for $\mathrm{E}-\mathrm{H}, \mathrm{L} ; 0.1 \mathrm{~mm}$ for $\mathrm{I}-\mathrm{K}, \mathrm{M}, \mathrm{N}$.


Fig. 2. Anisomysis (Javanisomysis) baliensis, sp. nov. Paratype, male (BL 2.6 mm : same specimen as for fig. 1: A-G). A, right second thoracopod; B, right third thoracopodal endopod; C, right fourth thoracopodal endopod; D, right fifth thoracopodal endopod; E, right sixth thoracopodal endopod; F, right seventh thoracopod; G, right eighth thoracopod with penis (Distal segments of the second to the eighth endopods are enlarged). Scale bar; 0.2 mm for $\mathrm{A}-\mathrm{G}$.


Fig. 3. Anisomysis (Javanisomysis) baliensis, sp. nov. Paratype, female (BL 2.6 mm : same specimen as for fig. 1: A-G). A, right second thoracopod; B, right third thoracopodal endopod; C, right fourth thoracopod; D, right fifth thoracopod; E, right sixth thoracopod; F, right seventh thoracopodal endopod with oostegite; G, right eighth thoracopodal endopod (Distal segments of the second to the eighth endopods are enlarged). Scale bar; 0.2 mm for $\mathrm{A}-\mathrm{G}$.



A

C

D

E


Fig. 4. Anisomysis (Javanisomysis) baliensis, sp. nov. Holotype, male (BL $2.8 \mathrm{~mm}: \mathrm{A}, \mathrm{B}, \mathrm{F}$ ), allotype, female (BL $2.6 \mathrm{~mm}: \mathrm{C}, \mathrm{E}, \mathrm{H}$ ), paratype, male (BL 2.6 mm : same specimen as for fig. 1: D, G) and female (BL 2.6 mm : same specimen as for fig. 1: I). A, ventral view of right first to third and fifth male pleopods from left to right; B, ventral view of right fourth male pleopod, endopod and apical barbed setae enlarged; C, ventral view of first to fifth left female pleopods from left to right; D, dorsal view of uropod and telson; E, ventral view of right uropod; F, dorsal view of telson; G, dorsal view of telson; H, dorsal view of telson; I, dorsal view of telson. Scale bar 0.2 mm for $\mathrm{B}, \mathrm{D}, \mathrm{E} ; 0.1 \mathrm{~mm}$ for A, C, F-I.

1C). Antennal scale over-reaching anterior end of antennular peduncle excluding male lobe in male (Fig. 1A, C), over-reaching in female (Fig. 1B, D), nearly 6 times longer than wide, and nearly 2.3 times longer than antennal peduncle in male (Fig. 1E) and nearly 2.4 times longer in female (Fig. 1F), narrowly lanceolate, setose all around, nearly straight in male and slightly curved outward in female, with rounded apex, near-apical suture present. Abdominal somites smooth, first 5 ones sub-equal in length, sixth longest, nearly 2 times longer than fifth in male (Fig. 1A) and 1.5 times longer in female (Fig. 1B).

Labrum anteriorly obtuse, without process, with expanded antero-lateral parts (Fig. 1G). Mandibular palp 3-segmented; second segment longest and widened at mid-length, with barbed setae on both margins, 3 to 5 on inner margin and 7 to 10 on outer margin in males (Fig. 1H, Table 1), and 3 to 5 and 6 to 9 , respectively in females (Table 1). Maxillule (Fig. 1J), maxilla (Fig. 1K) and first thoracopodal endopod (Fig. 1L-N) similar in form between male and female. Claw of dactylus of first thoracopodal endopod remarkable in shape with long spine constricted at mid-
dle part and then curved distally, fringed with minute denticles from middle to distal part (Fig. 1M). Similar spine also present on dactylus of second thoracopodal endopod (Figs. 2A, 3A). Third to fifth thoracopodal endopods comparatively long and then becoming gradually shorter towards eighth. Carpopropodus of thoracopodal endopod divided distally into 2 segments in third and fourth legs in male (Fig. 2B, C) and third to seventh in female (Fig. 3B-F); fifth to eighth endopods of male (Fig. 2D-G) and eighth of female (Fig. 3G) undivided; third to sixth endopods with 2 or 3 outer marginal setae fringed with minute denticles in male (Fig. 2B-E) and in third to eighth in female (Fig. 3B-G); flagelliform parts of first and eighth thoracopodal exopods with 7 segments (Figs. 1L, 2G) and those of second to seventh exopods with 8 segments in both sexes (Figs. 2A, F, 3A, C-E). Oostegite on seventh thoracopod (Fig. 3F) smaller than that of eighth. Penis cylindrical, with 2 setae at rounded apex (Fig. 2G).

Pleopods uniramous, un-segmented in first to third and fifth of male (Fig. 4A); first pleopod slightly bilobate, widened distally and broader

Table 1. Intraspecific variation in the number of setae on the second segment of the mandibular palp and denticles on the telson of paratype specimens of Anisomysis (Javanisomysis) baliensis sp. nov.

| Sex | Body length$(\mathrm{mm})$ | Number of setae on |  |  |  | No. of denticles on telson |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Left mandibular palp |  | Right mandibular palp |  |  |
|  |  | Outer margin | Inner margin | Outer margin | Inner margin |  |
| Male ( $\mathrm{n}=4$ ) | 2.8 | 7 | 3 | 7 | 3 | 22 |
|  | 2.5 | 10 | 4 | 8 | 4 | 24 |
|  | 2.5 | 8 | 4 | 8 | 4 | 22 |
|  | 2.6 | 7 | 5 | 8 | 5 | 24 |
| Average | 2.6 | 8.0 | 4.0 | 7.8 | 4.0 | 23.0 |
| Female ( $\mathrm{n}=9$ ) | 2.5 | 8 | 4 | 7 | 5 | 23 |
|  | 2.6 | 7 | 4 | 7 | 4 | 20 |
|  | 2.4 | 7 | 4 | 9 | 4 | 23 |
|  | 2.6 | 9 | 4 | 8 | 4 | 22 |
|  | 2.3 | 6 | 3 | 6 | 3 | 19 |
|  | 2.7 | 6 | 4 | 6 | 4 | 19 |
|  | 2.5 | 9 | No data | No data | No data | 23 |
|  | 2.5 | 7 | 3 | 7 | 3 | 22 |
|  | 2.6 | No data | No data | 6 | 3 | 26 |
| Average | 2.5 | 7.4 | 3.7 | 7.0 | 3.8 | 21.9 |
| Juvenile ( $\mathrm{n}=1$ ) | 2.1 | 6 | 3 | No data | No data | 21 |

Table 2. Comparison of morphological characters among four species of the subgenus Javanisomysis in the genus Anisomysis

| Species/Morphological characters | Anisomysis (J.) gutzui <br> Băsescu (1992a) | Anisomysis (J.) similis Sawamoto et al. (2015) | Anisomysis (J.) thurneysseni Nouvel (1973) | Anisomysis (J.) baliensis sp. nov. |
| :---: | :---: | :---: | :---: | :---: |
| Carapace | Produced anteriorly into broadly rounded or rounded triangular plate | Same as A. gutzui | Produced anteriorly into obtuse triangular plate | Same as A. gutzui |
| Antennal scale length to width ratio length ratio to peduncle | Narrowly lanceolate, setose all around, slightly curved outward; nearly 6.5 times longer than wide; nearly 2.0 times (male), nearly 2.5 times (female) longer than antennal peduncle | Same as $A$. gutzui; 5.0-5.5 times longer than wide; nearly 2.0 times (male) and nearly 2.3 times (female) longer than antennal peduncle; (length of flagellum ca. $80 \%$ of BL in male, ca. $65 \%$ in female) | Same as A. gutzui; ratio not described | Nearly straight in male, slightly curved outwards in female; nearly 6 times longer than wide; nearly 2.3 times (male) and nearly 2.4 times (female) longer than antennal peduncle; (length of flagellum ca. $100 \%$ of BL in male, ca. $70 \%$ in female) |
| Mandibular palp $2^{\text {nd }}$ segment | With 3-5 barbed setae along inner margin and 8-10 along outer margin in male, 3-5 along inner margin and 7 or 8 along outer margin in female | With 3-5 barbed setae along inner margin and 5-9 along outer margin in male, 3 or 4 along inner margin and 5-9 along outer margin in female | Not described | With $3-5$ barbed setae along inner margin and 7-10 along outer margin in male, 3-5 along inner margin and 6-9 along outer margin in female |
| Thoracic endopods | $3^{\text {rd }}$ to $8^{\text {th }}$ thoracopod carpopropodi in male and $3^{\text {rd }}$ to $6^{\text {th }}$ in female indistinctly divided distally into 2 segments | $3^{\text {rd }}$ to $8^{\text {th }}$ thoracopod carpopropodi in male and $3^{\text {rd }}$ to $5^{\text {th }}$ in female divided distally into 2 segments | $3^{\text {rd }}$ to $8^{\text {th }}$ thoracopod carpopropodi un-divided | $3^{\text {rd }}$ and $4^{\text {th }}$ thoracopod carpopropodi in male, $3^{\text {rd }}$ to $7^{\text {th }}$ carpopropodi in female divided distally into 2 segments |
| Length of $4^{\text {th }}$ male pleopod | Reaching posterior $3 / 4$ of $6^{\text {th }}$ abdominal somite excluding apical barbed setae | Same as A. gutzui | Reaching midlength of $6^{\text {th }}$ abdominal somite | Reaching or slightly over- reaching posterior margin of $6^{\text {th }}$ abdominal somite excluding apical barbed setae |
| $4^{\text {th }}$ male pleopod <br> Endopod and exopod | Endopod minute, with 6 setae; $1^{\text {st }}$ segment of exopod becoming gradually broadened towards distal $1 / 3$, then narrowing distally, with small, blunt projection at widest corner | Endopod minute, with 7 setae; exopod same as $A$. gutzui, $1^{\text {st }}$ segment of exopod same as $A$. gutzui but without projection at widest corner | Endopod minute, with several setae; $1^{\text {st }}$ segment of exopod cylindrical, sub-equal to $3{ }^{\text {rd }}$ segment in length | Endopod minute, with 5 setae; $1^{\text {st }}$ segment of exopod cylindrical, slightly longer than $3^{\text {rd }}$ segment |
| Telson | Nearly half length of $6^{\text {th }}$ abdominal somite, linguiform, as long as wide, fringed with 21 to 26 denticles in distal $1 / 3$ to $1 / 2$, apical 2 denticles slightly longer than others | Nearly half length of $6^{\text {th }}$ abdominal somite, linguiform, narrow at base, widened towards proximal $1 / 3$, as long as wide or slightly longer than width, fringed with 16 to 26 (mostly 20-24) denticles in distal $1 / 3$ to $1 / 2$, apical 2 denticles same as $A$. gutzui | Length ratio not described, linguiform, narrow at base, widened towards proximal third, ca. 1.5 times longer than width, fringed with 18 to 23 denticles in distal $1 / 3$, denticles nearly same in length, apical denticles irregularly arranged | Nearly $2 / 3$ of $6^{\text {th }}$ abdominal somite in length, linguiform, narrow at base, widened towards proximal $1 / 3,1.2-1.3$ times longer than width, fringed with 19 to 26 (mostly 20-24) denticles in distal $1 / 2$, apical 2 denticles same as $A$. gutzui |
| Body length (mm) | Male 3.0-3.2; female 2.5-3.0 | Male 2.3-3.4; female 2.6-3.6 | Male 3.3-3.7; female 3.5-3.7 | Male 2.4-3.2; female 2.5-3.2 |
| Source of data | Sawamoto et al. (2015) | Sawamoto et al. (2015) | Nouvel (1973) | Present study |

than remaining ones, third pleopod narrow; fourth pleopod biramous (Fig. 4B); endopod minute, with 5 setae (Fig. 4B); exopod long, reaching posterior margin of sixth abdominal somite, excluding barbed setae, cylindrical and 3 -segmented, first segment slightly longer than third, second segment shortest, third segment with 2 terminal barbed setae of different form, inner seta robust in proximal part, slightly longer than outer slender seta (Figs. 1A, 4B). Female pleopods all un-segmented, uniramous; first pleopod slightly widened distally, second shortest, fifth longest and similar in form to male (Fig. 4C). Uropodal endopod shorter than exopod (Fig. 4D, E), without spine on ventral side in statocyst region (Fig. 4E). Telson nearly half length of sixth abdominal somite, slightly longer than wide (1.1 to 1.3 times longer excluding apical 2 denticles), linguiform, narrow at base, widened towards proximal third, distal third triangular in shape, with 22 to 24 basally un-articulated denticles in males (Fig. 4F, G, Table 1) and with 19 to 26 (commonly 19-23) in females (Fig. 4H, I, Table 1), unarmed with apical plumose setae (Fig. 4F-I).

Etymology. This species is named after the locality of the specimens, Bali Island.

Distribution. This species was captured on a sandy beach at Tasman Sar, Pejamantan Bay, Bali Island, Indonesia. Recently, a research team led by Hanamura found a considerable number of mysids referable to this species from shallowcoastal waters in Lombok Island, Indonesia. Further information on these materials will be reported elsewhere.

Remarks. The specimens collected from Bali were once reported by Fukuoka et al. (2002) under A. thurneysseni Nouvel 1973, that was originally recorded from New Caledonia, although they noted differences between the two populations in the length of the male fourth pleopod; i.e., the exopod of the fourth male pleopod extends posteriorly beyond the base of the telson in Balinese specimens, whereas it barely reaches the middle of the last abdominal somite in the type specimens. This initiated further studies and
the present observation confirmed the finding by Fukuoka et al. (2002). However, in the present observation, marginal denticles on the telson were found to be completely un-articulated at base as opposed to indistinct but articulated ones in the previous description (see Fukuoka et al., 2002). In their short report, no information on thoracopodal endopods was provided.

Morphological characteristics of the Balinese specimens, now considered the new species $A$. ( $J$ ) baliensis, were compared with those of the three known species of the subgenus Javanisomysis (Table 2). The present new species exhibits a closer affinity to $A$. (J.) thurneysseni but it can be separable based on (1) the length of the fourth male pleopod, (2) the articulation in some thoracopodal endopods in both sexes, (3) the form of the frontal carapace plate, and (4) the arrangement of the denticles of the telson. In addition, the third and fourth thoracopodal endopods also differ in having with two-segmented carpopropodi in male (Fig. 2B, C), and similarly in the third to seventh in female (Fig. 3B-F) in $A$. ( $J$.) baliensis instead of undivided ones in $A$. (J.) thurneysseni. The frontal carapace plate is broadly rounded or rounded triangular in $A$. (J.) baliensis in contrast to bluntly pointed triangular in $A$. (J.) thurneysseni. The apical denticles of the telson are slightly longer than the others in $A$. (J.) baliensis, while irregularly arranged in $A$. (J.) thurneysseni. The form of the first segment of the exopod of the fourth male pleopod is remarkable in having no expansion as in $A$. (J.) thurneysseni, and this is a clear contrast to $A$. ( $J$.$) similis and A$. (J.) gutzui, both of which have a marked expansion near the distal part. The telson of $A$. (J.) baliensis is approximately one and half times longer than broad at base as in $A$. (J.) thurneysseni, while it is approximately the same length in A. (J.) gutzui and $A$. (J.) similis, and denticles on the telson are irregular both in size and arrangement in $A$. (J.) thurneysseni, while they are regularly arranged and become longer distally in $A$. (J.) gutzui and A. (J.) similis and A. (J.) baliensis.

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