

Key to NEP lysianassoid genera – dbcadien 26 June 2007 (modified from keys by J. L. Barnard and Karaman 1991, Lowry 1984, Lowry and Stoddart 1997)

Note: to avoid use of mouthparts in this key, several genera occur in multiple couplets. Although awkward, this was preferred to examination of mouthparts. Where this occurs, the NEP species within the genus which key out there are indicated. Species in the genus from outside the NEP may not key correctly, and the key should be used with particular caution for any region outside the NEP.

- 1a. Third pereopod chelate.....*Ensayara*
- 1b. Third pereopod not chelate, simple.....2
- 2a. First gnathopod chelate or subchelate.....3
- 2b. First gnathopod simple, or dactyl vestigial.....41
- 3a. First gnathopod propod attached ventrally to carpus.....*Opisa*
- 3b. First gnathopod propod attached dorsally to carpus.....4
- 3c. First gnathopod propod attached terminally to carpus.....5
- 4a. G1 subchelate, palm oblique, defined by short tooth.....*Pachychelium*
- 4b. G1 chelate, fixed finger linear, curved up at tip.....*Pachynus*
- 4c. G1 chelate, fixed finger curved downward distally.....*Prachynella*
- 5a. G1 chelate.....6
- 5b. G1 subchelate.....9
- 6a. G1 carpus and propod elongate, narrow, subequal.....*Euonyx*
- 6b. G1 carpus and propod not elongate, subquadrate, propod longer than carpus.....7
- 7a. Dactyl of G1 closing across the fixed finger, like scissors.....*Sophrosyne*
- 7b. Dactyl of G1 closing against fixed finger.....8
- 8a. Coxa 1 not shorter than coxa 2, distally expanded.....*Kyska*
- 8b. Coxa 1 strongly shortened, distally rounded.....*Aristiopsis*
- 8c. Coxa 1 slightly shorter than coxa 2, distally tapering.....*Paronesimoides*
- 9a. Mandibular palp absent.....*Metacyphocaris*
- 9b. Mandibular palp present.....10
- 10a. Coxa 1 reduced or vestigial, partially or completely covered by coxa 2.....11
- 10b. Coxa 1 not reduced, as long or nearly as long as coxa 2, roughly parallel to coxa 2, sides parallel or distally expanded.....22
- 11a. Coxa 1 vestigial, scarcely wider than basis.....*Eurythenes*
- 11b. Coxa 1 reduced, but still much wider than basis.....12
- 12a. Coxa 1 not tapering distally.....13
- 12b. Coxa 1 tapering distally, usually strongly.....14

- 13a. Coxa 1 slightly shorter than coxa 2, truncate, urosomite 1 with dorsodistal spine
.....*Tectoalopsis (wegeneri* only, other species see couplet 21)
- 13b. Coxa 1 strongly shortened, rounded, urosomite 1 lacking ornament.....*Aristias*
- 14a. Lateral cephalic lobe bluntly mamilliform.....15
- 14b. Lateral cephalic lobe obtusely to acutely produced.....16
- 14c. Lateral cephalic lobe truncate.....*Diatectonia*

- 15a. G2 propodus 90% of carpus length, both articles linear.....*Paralicella*
(*P. vaporalis* only, for other species see couplet 25)
- 15b. G2 propodus ½ to 2/3 carpus length, both articles subquadrate.....*Hirondellea*
- 16a. Uropod 2 inner ramus incised.....*Schisturella*
- 16b. Uropod 2 inner ramus not incised.....17
- 17a. Gnathopod 1 palm transverse.....18
- 17b. Gnathopod 1 palm oblique.....21
- 18a. Gnathopod 1 articles 5 and 6 subequal.....19
- 18b. Gnathopod 1 article 6 longer than article 5.....*Cedrosella*
- 19a. Telson cleft only 10% of length.....*Ventiella*
- 19b. Telson cleft 50% or more.....20
- 20a. Urosomite 1 with prominent posterodorsal tooth.....*Valettiopsis*
- 20b. Urosomite 1 lacking tooth.....*Valettietta*
- 21a. Uropod 3 rami more than twice as long as peduncle, distal article of outer ramus
only about 10% of ramal length.....*Tectovalopsis*
- 21b. Uropod 3 rami slightly longer than peduncle, distal article of outer ramus about
1/3 length of the ramus.....*Tryphosella*
- 22a. Eyelobe bluntly mammiliform.....23
- 22b. Eyelobe obtusely to acutely produced.....26
- 23a. Telson emarginate, epimeron 3 subquadrate.....*Koroga*
- 23b. Telson cleft at least 60%, epimeron 3 rounded.....24
- 24a. G2 propod nearly as long (80%) as carpus.....25
- 24b. G2 propod more than half as long (60%) as carpus.....*Abyssorchomene*
- 25a. Urosomite 1 with a single posterior tooth.....*Transtectonia*
- 25b. Urosomite 1 with at most a low hump.....*Paralicella*
- 26a. Urosomite 1 with a single dorsally directed tooth.....27
- 26b. Urosomite 1 with a low hump or a carina, but not dorsally directed tooth.....29
- 27a. Basis of pereopod 5 with two finger-like posterior spikes.....*Lepidepcreoides*
- 27b. Basis of pereopod 5 with or without a posterior lobe, but lacking spikes.....28
- 28a. Epimeron 3 subquadrate.....*Uristes*
(*entalladurus* only, other species see couplets 33, 41)
- 28b. Epimeron 3 with posteroventral tooth.....*Paracentromedon*
- 29a. Epimeron 3 with posteroventral tooth.....30
- 29b. Epimeron 3 subquadrate.....35
- 29c. Epimeron 3 rounded.....*Orchomene*
(*obtusa* only, other species see couplet 41)
- 30a. Urosomite 1 with at most a low hump.....32
- 30b. Urosomite 1 with a carina.....31
- 31a. Epimeron tooth located on hind margin above posteroventral corner.....*Anonyx*
- 31b. Epimeron tooth at posteroventral corner, next to ventral margin.....*Orchomenella*
(*pacifica* only, for other species see couplets 34, 37, 39, 40)

- 32a. Antenna 1, basal flagellar segments fused; telson lobes well tapered, apices with a single spine.....33
- 32b. Antenna 1, basal flagellar segments separate; telson lobes weakly or not tapering, apices truncate with multiple spines.....*Psammonyx*
- 33a. Telson apices notched, spines inserted subterminally.....*Uristes* (*perspinis* only, other species see couplets 28, 41)
- 33b. Telson apices entire, spines inserted terminally.....34
- 34a. Uropod 3 rami only slightly longer than peduncle.....*Orchomenella* (*decipiens* only, for other species see couplets 31, 37, 39, 40)
- 34b. Uropod 3 rami significantly longer than peduncle.....*Hippomedon*
- 35a. Epimeron 3 posterior margin serrate.....36
- 35b. Epimeron 3 posterior margin smooth.....37
- 36a. Coxa 5 bearing posteroventral lobe.....*Orchomenella* (*punguis* only, other species see couplets 31, 34, 39, 40)
- 36b. Coxa 5 lacking posteroventral lobe.....*Rimakoroga*
- 37a. Urosomite 1 carinate.....38
- 37b. Urosomite 1 bearing at most a low rounded hump.....39
- 38a. Body widest at 5th coxa, presenting a “diamond” shape when viewed from above; article 3 of antenna 2 elongate.....*Lepidepecreum*
- 38b. Body not noticeably widest at the 5th coxa, at most fusiform rather than diamond shaped; article 3 of antenna 2 not elongate.....*Orchomenella* (*holmesi* and *minuta* only, other species see couplets 31, 34, 37, 40)
- 39a. Telson entire, emarginate, or cleft no more than 40% of its length....*Orchomenella* (*recondita* and *tabasco* only, other species see couplets 31, 34, 37, 39)
- 39b. Telson cleft 50% or more.....40
- 40a. Eyelobe acute, distally pointed.....*Uristes* (*dawsoni* only, other species see couplets 28, 33)
- 40b. Eyelobe obtusely produced, rounded.....*Orchomene* (all regional species except *obtusa*; see also couplet 29)
- 41a. Mouthparts formed into a conical bundle.....42
- 41b. Mouthparts formed into a quadrate bundle.....45
- 42a. Telson cleft at least 40%.....43
- 42b. Telson entire or emarginate.....44
- 43a. Uropod 2 inner ramus incised.....*Socarnoides*
- 43b. Uropod 2 inner ramus not incised.....*Acidostoma*
- 44a. Telson entire.....*Ocosingo*
- 44b. Telson emarginate.....*Stomacontion*
- 45a. G1 dactyl vestigial, hooded and/or hidden by sheaf of spines or setae.....46
- 45b. G1 dactyl not vestigial, not hidden by hood, setae or spines.....49
- 46a. Coxae 1 and 2 reduced, partially hidden by coxa 3.....*Anisocallisoma*
- 46b. Coxae 1 and 2 not reduced.....47
- 47a. Antenna 1 peduncle article 1 bearing posterodistal tooth.....*Ichnopus*
- 47b. Antenna 1 peduncle article 1 lacking posterodistal tooth.....48
- 48a. G1 propod longer than carpus, tapering.....*Paracallisoma*
- 48b. G1 propod shorter than carpus, linear.....*Scopelocheiropsis*

49a.	Coxa 1, 1 and 2, or 1-3 reduced.....	50
49b.	No anterior coxa reduced.....	55
50a.	Coxa 1 reduced, coxa 2 not reduced.....	<i>Centromedon</i>
50b.	Coxa 1 and two both reduced.....	51
51a.	Coxa 1, 2, and 3 all reduced and partially covered by coxa 4.....	<i>Cyphocaris</i>
51b.	Coxa 3 not reduced.....	52
52a.	Epimeron 3 with posteroventral tooth.....	53
52b.	Epimeron 3 lacking posteroventral tooth.....	54
53a.	Uropod 3 outer ramus uniarticulate.....	<i>Parargissa</i>
53b.	Uropod 3 outer ramus biarticulate.....	<i>Procyphocaris</i>
54a.	Epimeron 3 subquadrate.....	<i>Cyclocaris</i>
54b.	Epimeron 3 posterior margin notched, truncate and serrate.....	<i>Lepidepecreela</i>
55a.	Telson cleft more than 50% of length.....	56
55b.	Telson entire or emarginate.....	59
56a.	Urosomite 1 with multiple posterior teeth.....	<i>Apotectonia</i>
56b.	Urosomite 1 lacking teeth, with saddle or low hump.....	57
57a.	Eyelobe truncate.....	<i>Alicella</i>
57b.	Eyelobe obtusely to acutely produced.....	58
58a.	Telson tapering to distal truncation, cleft 90%, each lobe tipped with multiple large spines.....	<i>Waldeckia</i>
58b.	Telson acute to rounded, cleft not more than 70%, each lobe bearing a single terminal spine.....	<i>Socarnes</i>
59a.	Telson entire, uropod 2 inner ramus incised.....	60
59b.	Telson emarginate, uropod 2 inner ramus not incised.....	61
60a.	Uropod 3 outer ramus uniarticulate.....	62
60b.	Uropod 3 outer ramus biarticulate.....	<i>Dissiminassa</i>
61a.	Uropod 3 outer ramus uniarticulate.....	<i>Hyperiopsis</i>
61b.	Uropod 3 outer ramus biarticulate.....	<i>Aruga</i>
62a.	Eyelobe obtusely produced.....	63
62b.	Eyelobe truncate, slightly crenulate.....	<i>Macronassa macromera</i>
63a.	Epimeron 3 quadrate, uropod 3 rami strongly attenuated	<i>Shoemakerella</i>
63b.	Epimeron 3 produced posteriorly into a quadrate plate, uropod 3 rami not strongly attenuated.....	<i>Macronassa pariter</i>