



Chapter 7 Planktonic Crustacea

Part V Mysidacea



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References

- 刘瑞玉, 王绍武, 2000. 中国动物志 节肢动物门 甲壳动物亚门 糠虾目



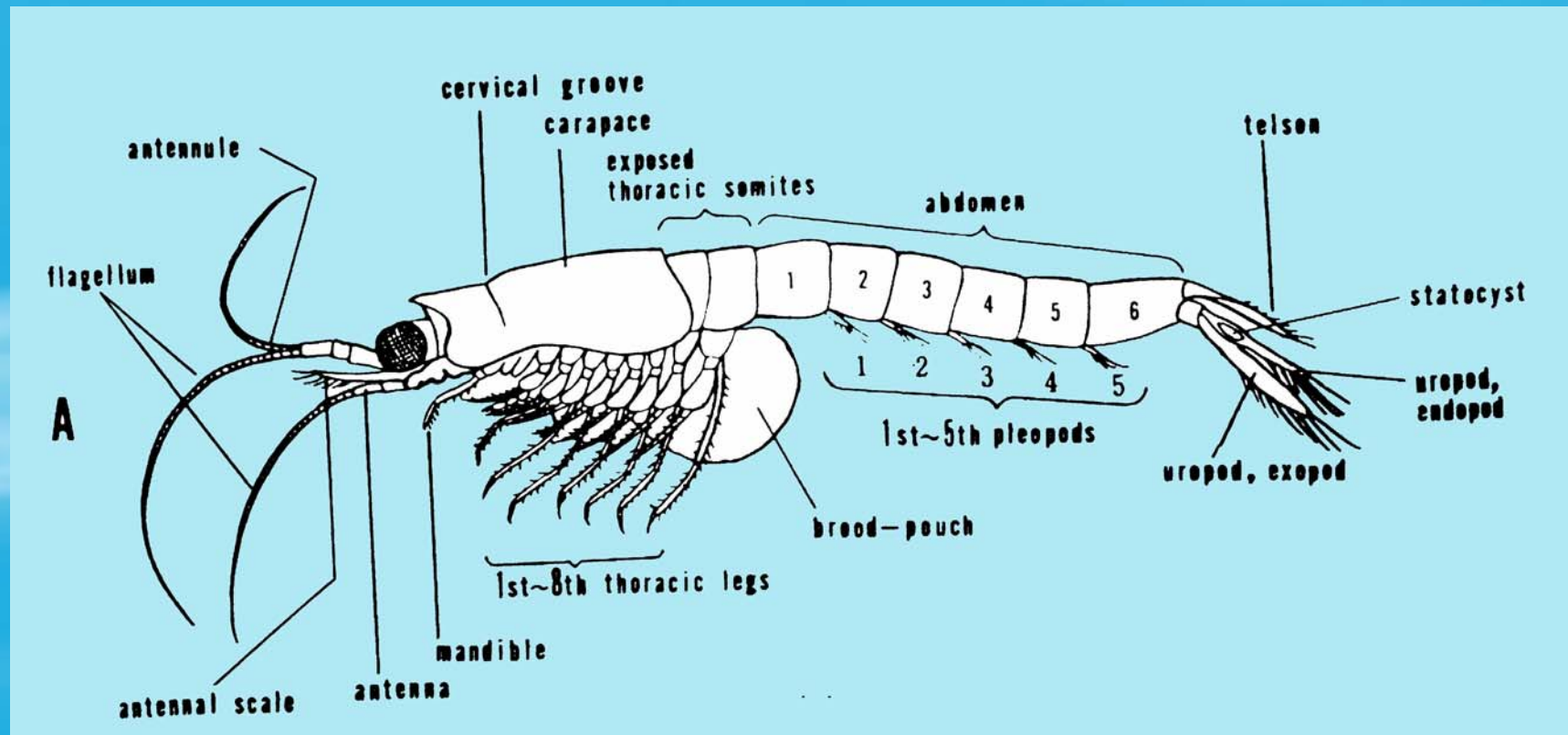
Characteristic features

- 1 the cephalothorax is not entirely covered by the carapace**
- 2 P Re well developed, Pl rudimentary**
- 3 with statocyst**
- 4 direct development**

1 External features

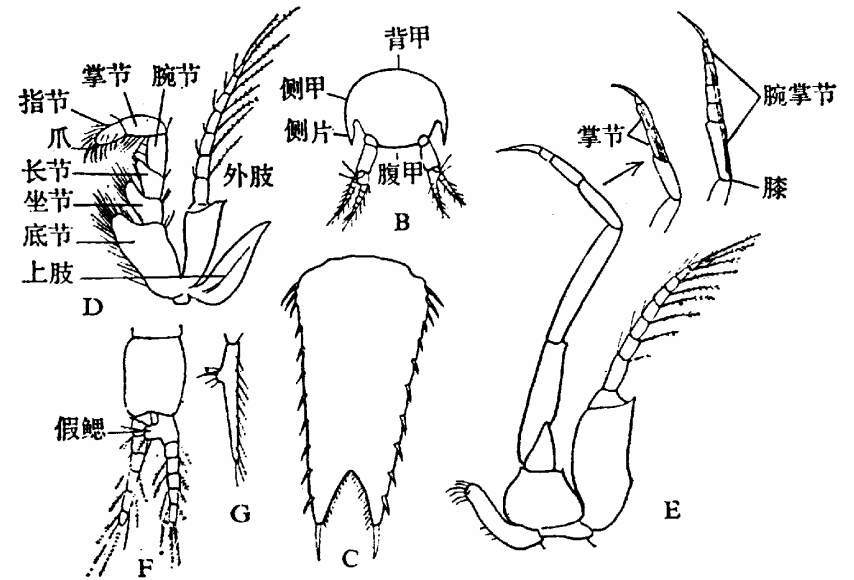
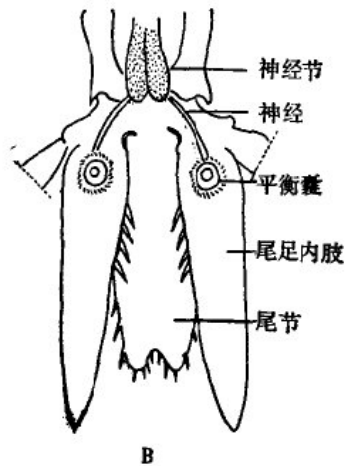
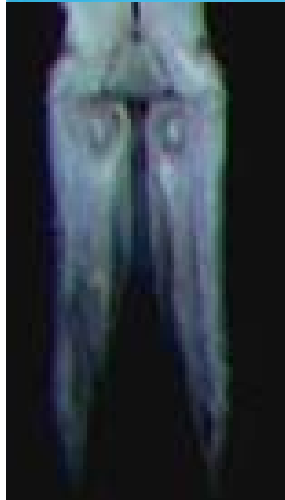
1.1 Partition and metamerism

- cephalothorax
- abdomen

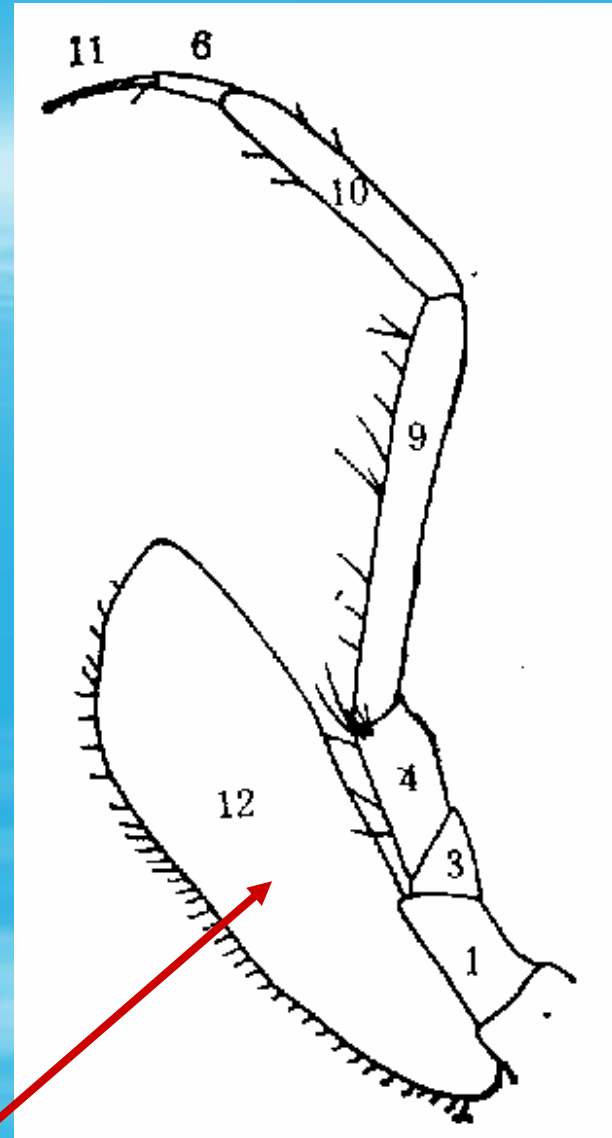
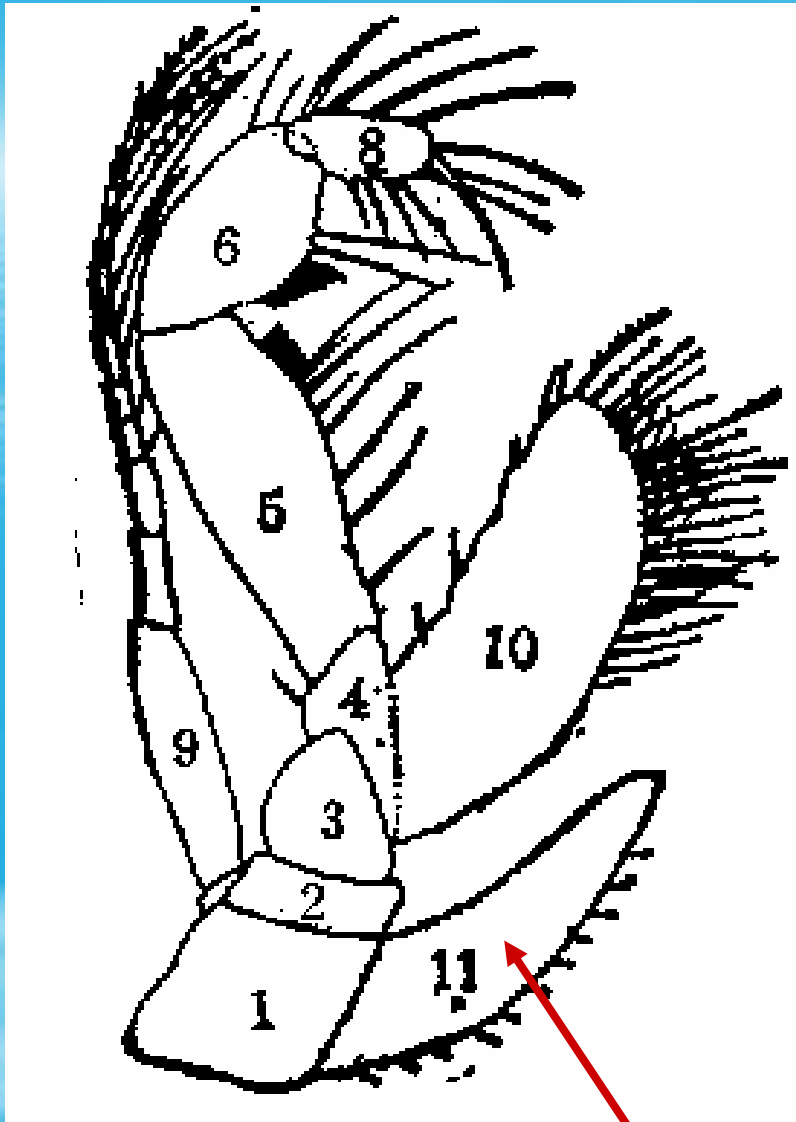


1.2 Appendages

- (1) A_1
- (2) A_2
- (3) M, M_1, M_2
- (4) P_{1-8} ($P_1 \rightarrow Mp, P_2 \rightarrow Gp$)
- (5) Pl_{1-5} , sexual dimorphism
- (6) Up



糠虾的外部形态及部分附肢
 A. 雌性侧面观; B. 腹部横切面; C. 尾节背面观; D. 颚足; E. 第八胸足; F. ♂ 性腹足; G. 女性退化的腹足



抱卵板

Hansenomysis fyllae ♀ P₂ and P₈

2 Classification

>700 species, 2 suborders, 4 families, 43 genera

- **1 shape of the carapace**
- **2 with or without gills**
- **3 ♀ the number of oostegites**
- **4 the degree development of Pl**
- **5 with or without statocyst**

Comparison of two suborder in Mysidacea

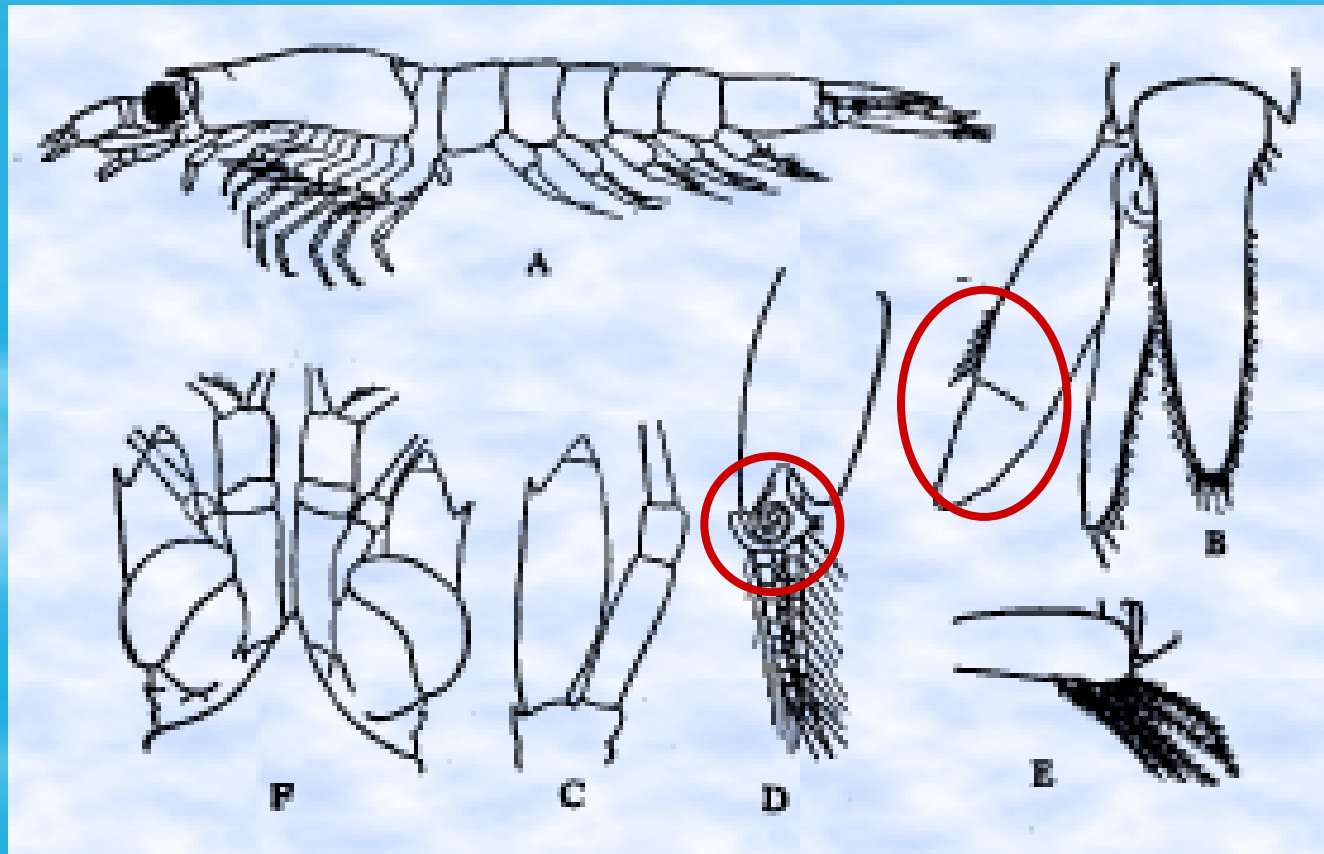
	Suborder Lophogastrida	Suborder Mysida
branchiae	P ₂₋₇ present	absent
oostegites	♀ 7 pairs	♀ 2-3 pairs
PI	♀ ♂ well developed ♂ not modified	♀ rudimentary, ♂ one or more pairs modified as accessory copulatory organs
statocyst	absent	usually present

2.1 Suborder Lophogastrida 疣背糠虾亚目

2.2 Suborder Mysida 糠虾亚目

2.2.1 Mysidae 糠虾科

- Subfamily Siriellinae 节糠虾亚科
- *Siriella sinensis* 中华节糠虾

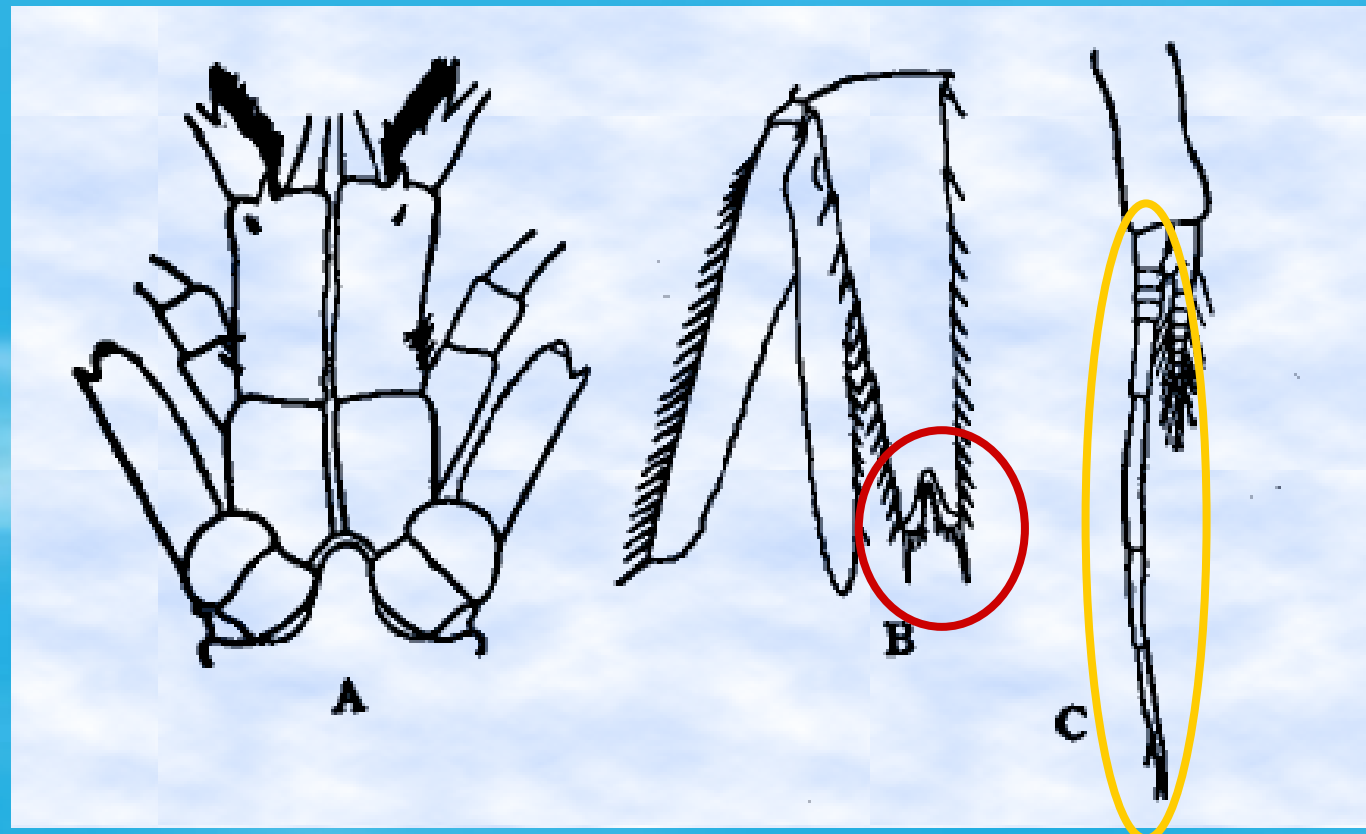


Subfamily Gastrosaccinae 囊糠虾亚科

- *Iiella pelagicus* 漂浮小井伊糠虾

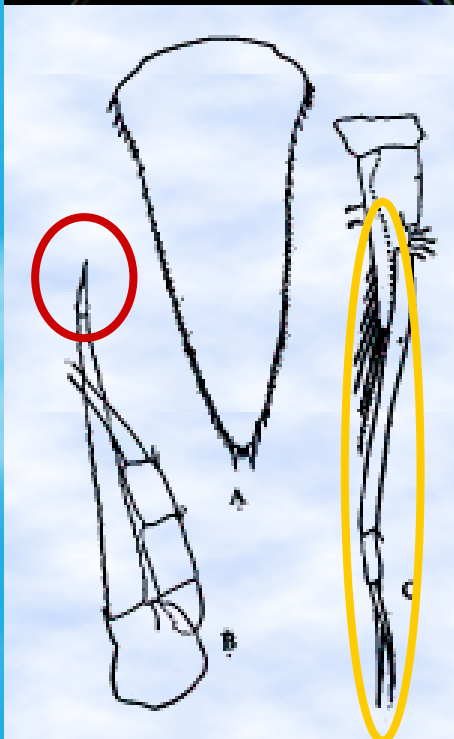
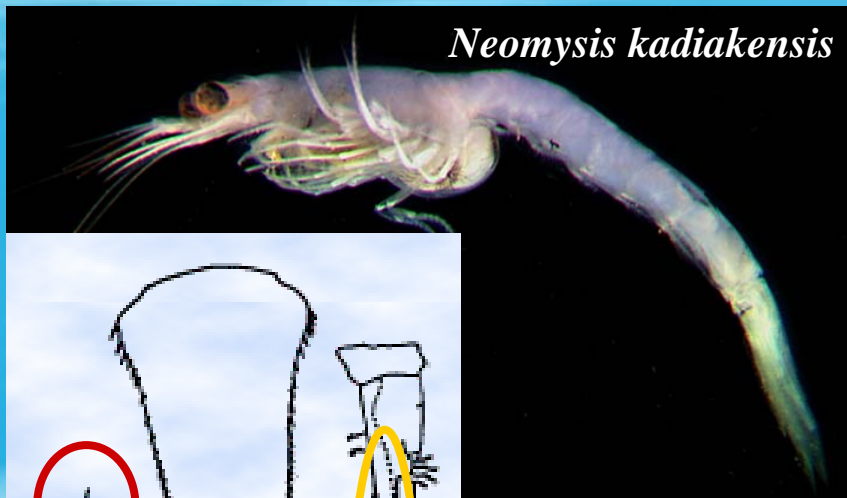
Pl₃ Re

Incision on telson



Subfamily Mysinae 糠虾亚科

- *Neomysis japonica* 日本新糠虾
- *Acanthomysis longirostris* 长额刺糠虾



Pl₄ Re

A₂ Re antennal scale (鳞片)



Comparison of family of Mysidae

Subfamily features	Siriellinae	Gastrosaccinae	Mysinae
♀ oostegites	3 pairs	2 pairs	2-3 pairs
Up Re with a well-marked distal suture	yes	no	no
telson	entire	with distinct apical cleft	changed but no distinct
Up Re	segmented	unsegmented	unsegmented
delegate genus	<i>Siriella</i>	<i>Gastrosaccus</i>	<i>Neomysis and Acanthomysis</i>

3 Biology and Significance

3.1 Biology

- 1 distribution
- 2 swarming
- 3 feeding habits
- 4 reproduction

3.2 Significance

