

Petalidium.

Pleurobranchiæ,	.	.	.	...	...	f	f	f	...	...
Arthrobranchiæ,	.	.	.	r	l	l	l	l	...	...
Podobranchiæ,	.	.	.	l	...	...	...	...	...	...
Mastigobranchiæ,	.	.	.	l	...	...	...	...	...	...
				h	i	k	l	m	n	o

Sergestes japonicus.

Pleurobranchiæ,	.	.	.	...	f1	f1	f1	f1	2	...
Arthrobranchiæ,	.	.	.	...	...	...	...	...	...	...
Podobranchiæ,	.	.	.	l	...	...	...	...	...	...
Mastigobranchiæ,	.	.	.	l	...	...	...	...	...	...
				h	i	k	l	m	n	o

Sergestes kröyeri.

Pleurobranchiæ,	.	.	.	...	f1	f1	f1	2	2	...
Arthrobranchiæ,	.	.	.	...	...	...	...	...	...	...
Podobranchiæ,	.	.	.	l	...	...	...	...	...	...
Mastigobranchiæ,	.	.	.	l	...	...	...	...	...	...
				h	i	k	l	m	n	o

Sergestes prehensilis.

Pleurobranchiæ,	.	.	.	...	l	l	lr	2	2	...
Arthrobranchiæ,	.	.	.	...	...	...	...	...	...	...
Podobranchiæ,	.	.	.	l	...	...	...	...	...	...
Mastigobranchiæ,	.	.	.	l	...	...	...	...	...	...
				h	i	k	l	m	n	o

I think it is desirable that the Preliminary Remarks on the Development of some Pelagic Decapods, by Dr. v. Willemoes-Suhm, communicated to the Royal Society, and published in their proceedings,¹ should in justice to him be reproduced here, so that they may have their full weight on the minds of those who may see the drawings of the animals, in which he took great interest.

“Since we left Australia I have investigated the metamorphoses of some Crustacea which have been constantly caught by us on the surface of the tropical and subtropical parts of the Pacific. Though these investigations will be continued, I have now arrived at certain results which I think will not be uninteresting to zoologists. The genera to which these remarks refer are *Amphion*, *Sergestes*, and *Leucifer*.

“*Amphion Reynaudi* has been on our lists as an animal ‘*incertæ sedis*’ (Milne-Edwards) for nearly forty years, until Dorhn proved that a full-grown specimen of it, which he dissected, was in possession of branchiæ and of an ovary, therefore, no doubt, a

¹ *Proc. Roy. Soc.*, vol. xxiv, p. 132, 1876.