Papers and Proceedings of the Royal Society of Tasmania, Volume 110, 1976.

(ms. received 2.7.1975)

INVERTEBRATE ANIMALS, INCLUDING TYPE SPECIMENS, TRANSFERRED FROM THE UNIVERSITY OF TASMANIA TO THE TASMANIAN MUSEUM

by Alison J.A. Green Tasmanian Museum and Art Gallery

ABSTRACT

Collections of Tasmanian invertebrates, formerly housed in the Department of Zoology, University of Tasmania, have been presented to the Tasmanian Museum. include type specimens of Turbellaria, Trematoda, Cestoda, Hirudinea and Ascothoracida and examples of Hydroidea and Psocoptera.

INTRODUCTION

In June 1974 the Department of Zoology, University of Tasmania, presented to the Tasmanian Museum a collection of microscope slides prepared by former members of the department. Many of these slides bear type specimens. Their transfer was arranged by Dr. J.L. Hickman who also donated to the museum the types of his own species of Cestoda and Ascothoracida which were previously lodged in the Department of Zoology. Another donation by this department, which was arranged by Dr. Hickman in September 1975 included type specimens of Hirudinea.

The type material received is listed in a table and a brief account is given of other parts of the collections. All of the animals mentioned were found in Tasmania.

In cases where the holotype and paratype(s) are held, the first museum registration number listed for the species has been assigned to the holotype; the same applies to lectotype and paralectotypes. One registration number may represent more than one microscope slide, as in the case of serial sections where one number refers to all of the slides in a series.

TYPE MATERIAL

Abbreviations

H = holotype; A = allotype; P = paratype(s); S = syntype(s);

L = lectotype; PL = paralectotypes,

	Species	Types	Registration Numbers
TURBELLARIA	Acholades asteris Hickman & Olsen, 1955	H & P	K525 - K530
11	Avagina vivipara Hickman, 1956	H & P	K523 - K524
11	Marcusella pallida Hickman, 1956	н & Р	K538 - K539
f f	Notothrix inquilina Hickman, 1955(b)	H & P	K531 - K533
11	Ozametra striata Hickman, 1955(b)	неР	K534 - K537
11	Syndesmis punicea Hickman, 1956	H & P	K540 - K547
TREMATODA	Bivesicula australis Crowcroft, 1947(c) (see note 1)	S	K626 - K628
Ħ	Coitocaecum anaspidis Hickman, 1934	S	K548 - K555
Ħ	Coitocaecum parvum Crowcroft, 1945	S	K565 - K573
11	Copiatestes thyrsitae Crowcroft, 1948	S	K629 - K637

	Species	Types	Registration Numbers
TREMATODA	Gnathomyzon insolens Crowcroft, 1945	S	K574 - K580
11	Helicometra neosebastodis Crowcroft,	S	K581 - K583
	(see note 2) 1947(a)		
*1	Hemiperina manteri Crowcroft, 1947(c)	S	K618 - K625
Ħ	Maritrema ornithorhynchi Hickman,	нер	K556 - K564
	1955(a)	- "	
**	Opecoelus tasmanicus Crowcroft, 1947(c)	(S	K602 - K611
	(see note 3)	(S?	K612 - K613
11	Parahemiurus lovettiae Crowcroft,	S	K615 - K617
	(see note 4) 1947(c)	_	
51 12	Sterrhurus macrorchis Crowcroft, 1946	S	K597 - K601
,,	Telorhynchus arripidis Crowcroft, 1947(a) (see note 5)	S?	K584 - K596
CESTODA	Anthobothrium hickmani Crowcroft, 1947(b)	S	K675 - K682
11	Barietta criniae criniae Hickman, 1960	н & Р	K710 - K712
11	Barietta criniae minor Hickman, 1960	P	K713 - K717
11	Nematotaenia hylae Hickman, 1960	н в Р	K705 - K709
11	Oochoristica nyetophili Hickman, 1954	Н & Р	K701 - K704
11	Oochoristica vacuolata Hickman, 1954	н & Р	K683 - K700
HIRUDINEA	Austrobdella bilobata Ingram, 1957	S	K718 - K721
11 '	Clossiphonia tasmaniensis Ingram, 1957	S	K732 - K735
11	Ichthyobdella platycephali Ingram, 1957	НЕР	K731, K792
11	Philaemon grandis Ingram, 1957	Н	K742
11	Placobdella bdellae Ingram, 1957	S	K737 - K740
11	Trachelobdella leptocephali Ingram, 1957 (see note 6)	L & PL	K773 - K778
ASCOTHORACIDA	Dendrogaster tasmaniensis Hickman, 1959	н,А,Р	G1586 - G1600

NOTES ON TYPE MATERIAL

(1) Bivesicula australis Crowcroft

Slide K626 is labelled "Type". However, the specimen thereon is a syntype and not a holotype because two slides of *B. australis*, each labelled "Co-type", are lodged in the Australian Museum, Sydney (Reg. nos. W3509, W3510).

(2) Helicometra neosebastodis Crowcroft

Sekerak and Arai (1974, p. 726) have regarded *H. neosebastodis* as a synonym of *H. tenuifolia* Woolcock, 1935.

(3) Opecoelus tasmanicus Crowcroft

The status of two slides of *O.tasmanicus* (K612, K613) is uncertain. They may not belong to the syntype series as their labels differ, in handwriting and content, from those of the other slides of whole mounts of this species.

(4) Parahemiurus species

The Australian Museum has ten slides of Crowcroft's species of Trematoda, each labelled "Co-type". One of these (Reg. no. W3515) was labelled "Parahemiurus australis Crowcroft ex Lovettia sealii". However, the species which Crowcroft (1947c, p.13) established from trematodes found in Lovettia sealii Johnston is P.lovettiae. The

author of *P. australis* is Woolcock and its host is *Physiculus barbatus* Günther (see Crowcroft, 1947c, p.16).

The collection given to the Tasmanian Museum by the University of Tasmania includes two slides of whole mounts (K614, K615) which were labelled as "Parahemiurus lovettiae Crowcroft". These three slides of Parahemiurus have been examined by Dr. Hickman who has confirmed that their labels were incorrect. He has identified their specimens as follows:-

Australian Museum: no. W3515 bears four examples of P.lovettiae Crowcroft (syntypes).

Tasmanian Museum: no. K614 bears three examples of *P. australis* Woolcock.

Tasmanian Museum: no. K615 bears two specimens of *P. lovettiae* Crowcroft (syntypes) and one of *Telorhynchus* sp.

(5) Telorhynchus arripidis Crowcroft

One slide of *T.arripidis*, labelled as "Co-type", is held by the Australian Museum (Reg. no. W3511). Presumably Crowcroft's other examples of this species represent the rest of the syntype series. However, the relevant slides (K584 - K596) were not originally labelled with a specific name; their specimens have been identified as *T.arripidis* by Dr. Hickman.

(6) Trachelobdella leptocephali Ingram

When Ingram's microscope slides of Hirudinea were presented to the Tasmanian Museum in 1974, the gift theoretically included her slides of *T.leptocephali* which then had the status of syntypes. In fact the latter were absent on loan and were not actually received by the museum. It has since been established that these slides have been mislaid by the borrower.

Therefore, in September 1975, Mrs. D.M. Banks (née Ingram) examined the remainder of her type séries of T.leptocephali which was still held by the Department of Zoology. She chose one whole specimen to be designated as a lectotype and five specimens to be named as paralectotypes. These animals were then transferred to the Tasmanian Museum, together with other whole specimens from Ingram's collection. The missing slides, if they are found, will have the status of paralectotypes.

OTHER MATERIAL

In addition to the type specimens listed, the collections received from the University of Tasmania contain the following material on which published studies have been based. (Registration numbers are given in parentheses).

HYDROLDEA

Hydroids\reviewed by Hodgson (1950), including examples of *Halecium fragile* Hodgson (K444, K445).

TREMATODA

Known species of trematodes studied by Crowcroft (1947c, 1950).

HIRUDINEA

Hirudinea described by Ingram (1957) including additional specimens, not designated as type material, of three of her own species:- Austrobdella bilobata (K722-K730, K786-K791), Glossiphonia tasmaniensis (K736) and Placobdella bdellae (K741, K784).

PSOCOPTERA

Slides bearing separate parts of psocids studied by Edwards (1950), including examples of his own species:- Caecilius quercus (F301), Clematostigma tardipes (F286), Interpsocus brunneus (F299), Peripsocus eucalypti (F297), P.macropterus (F298), Philotarsus greyi (F295) and Trichopsocus australis (F296).

Invertebrate animals transferred to the Tasmanian Museum

The holotypes and allotypes of Edwards' species are lodged in the Australian Museum. It is possible that the author's slides of these species, now held by the Tasmanian Museum, represent paratype material.

ACKNOWLEDGEMENTS

The gifts by the Department of Zoology, University of Tasmania, to the Tasmanian Museum of scientifically valuable collections are greatly appreciated. Personal thanks are due to Dr. J.L. Hickman, Senior Lecturer in Zoology, for his initiative in arranging the transfers and for his considerable help in listing and checking the status of the material before its presentation. Dr. Crowcroft's type slides in the Australian Museum were examined with the permission of Dr. P.A. Hutchings, who is thanked for her assistance.

REFERENCES

Crowcroft, P.W., 1945: New trematodes from Tasmanian fishes (Order, Digenea. Family, Allocreadiidae). Pap. Proc. R. Soc. Tasm., 1944 (1945), 61-9, pls. VIII-IX.
, 1946: A description of <i>Sterrhurus macrorchis</i> n.sp., with notes on the taxonomy of the genus <i>Sterrhurus</i> Looss (Trematoda - Hemiuridae). <i>Pap.Proc. R.Soc.Tasm.</i> , 1945 (1946), 39-47, pls. II-III.
, 1947a: The anatomy of two new digenetic trematodes from Tasmanian food fishes. <i>Proc. Linn. Soc. N. S. W.</i> , 1, 108-18.
, 1947b: Note on Anthobothrium hickmani, a new cestode from the Tasmanian electric ray (Narcine tasmaniensis Richardson). Pap.Proc.R.Soc.Tasm., 1946 (1947), 1-4.
, 1947c: Some digenetic trematodes from fishes of shallow Tasmanian waters. Pap. Proc. R. Soc. Tasm., 1946 (1947), 5-25.
, 1948: A new digenetic trematode from the barracouta (Syncoeliidae - Digenea). Pap. Proc. R. Soc. Tasm., 1947 (1948), 49-57.
, 1950: A revised description of <i>Dolichopera macalpini</i> Nicoll, 1914 (Plagiorchiidae - Trematoda). <i>Pap.Proc.R.Soc.Tasm.</i> , 1949 (1950), 73-6, pl. I.
Edwards, B.A.B., 1950: A study of Tasmanian Psocoptera with descriptions of new species. Pap. Proc. R. Soc. Tasm. 949 (1950), 93-134.
Hickman, J.L., 1954: Two new cestodes (Genus Occhoristica) one from the lizard, Egernia whitii, the other from the bat, Nyctophilus geoffroyi. Pap.Proc.R.Soc. Tasm., 88, 81-104.
, 1959: Dendrogaster tasmaniensis sp.nov., (Ascothoracida) from the sea- star Allostichaster polyplax (Müller and Troschel). Parasitology, 49, 316-29.
, 1960: Cestodes of some Tasmanian Anura. Ann. Mag. Nat. Hist., (13), 3, 1-23
Hickman, V.V., 1934: On <i>Coitocaecum anaspidis</i> sp.nov., a trematode exhibiting progenesis in the freshwater crustacean, <i>Anaspides tasmaniae</i> Thomson. <i>Parasitology</i> , 26, 121-8.
, 1955a: On Maritrema ormithorhynchi sp.n., with a key to the genus Maritrema Nicoll. Rev. Iberica Parasitol. Tomo Extraordinario, 181-91.

Alison J.A. Green

- Hickman, V.V., 1955b: Two new rhabdocoel turbellarians parasitic in Tasmanian holothurians. Pap. Proc. R. Soc. Tasm., 89, 81-97, pls. I-III.
- , 1956: Parasitic Turbellaria from Tasmanian Echinoidea. Pap.Proc.R.Soc. Tasm., 90, 169-81.
- and Olsen, A.M., 1955: A new turbellarian parasitic in the sea-star Coscinasterias calamaria (Gray). Pap. Proc. R. Soc. Tasm., 89, 55-63, pls. I-II.
- Hodgson, M.M., 1950: A revision of the Tasmanian Hydroida. Pap.Proc.R.Soc.Tasm., 1949 (1950), 1-65.
- Ingram, D.M., 1957: Some Tasmanian Hirudinea. Pap. Proc. R. Soc. Tasm., 91, 191-232.
- Sekerak, A.D. and Arai, H.P., 1974: A revision of *Helicometra* Odhner, 1902, and related genera (Trematoda: Opecoelidae), including a description of *Neohelicometra sebastis* n.sp. *Can.J. 2001.*, 52 , 707-38.

APPENDIX

In August, 1976, Professor V.V. Hickman presented to the Tasmanian Museum the microscope slides which bear his type specimens of Turbellaria: Temnocephalidea

Species	Types	Registration Numbers
Temnocephala cita Hickman, 1967	S	K827 - K828
Temnocephala fulva Hickman, 1967	Н & Р	K829 - K830
Temnocephala pygmaea Hickman, 1967	Н€Р	K831 - K833

REFERENCE

HICKMAN, V.V., 1967: Tasmanian Temnocephalidea. Pap. Proc. R. Soc. Tasm., 101, 227-50, pl. I.

