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A BIBLIOGRAPHY OF THE CHIRONOMIDAE

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ABSTRACT

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A bibliography of the Chironomidae. *K. norske Vidensk. Selsk. Mus.
Gunnaria* 38: 1-177.

This bibliography contains references to approximately 6400 papers on Chironomidae, published up to the end of the year 1974. Besides biological journals and books, the bibliography also includes some M.Sc. and Ph.D. theses. A rough key to various subjects is given by index letters as: C - cytology, E - ecology, G - general, H - history, M - morphology, P - parasitology, Ph - physiology, and S - systematics.

Titles in German, French, Italian, Spanish, Portuguese, and Latin are given in their original language. Titles in other languages are translated, mainly to English.

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INTRODUCTION

The family Chironomidae is a group of insects whose taxonomy is incompletely known and difficult to interpret. Larvae and pupae of this family are found in every aquatic habitat, many semi-aquatic, and some terrestrial and marine littoral habitats in all continents. Comprising almost 25% of the species-rich insect limnetic fauna, they generally form an appreciable qualitative and quantitative component of the ecosystems of lentic and lotic waters. The imaginal stage lasts from several hours to a few days and serves exclusively for reproduction. In waters near housing estates the occurrence of massive swarms of chironomids and their attraction to artificial light sources during the hours of darkness may assume nuisance proportions. In spite of the remarkable morphological uniformity within the family, the larvae of many species have a strict correlation with known ecological factors, so much so that they have become established as indicator organisms in the fields of theoretical and applied limnological research.

It is noteworthy, however, that research on the various diagnostic forms of these insects has not been restricted to distributional studies or confined to taxonomists and ecologists. For some decades now the chironomid larvae, because of the giant chromosomes in their salivary glands and other organs, have played a significant role in the various divisions of cytology such as cytomorphology, cytochemistry, karyosystematics, and genephistology. Similarly the larvae of these insects have become established as laboratory experimental animals in the various fields of physiology, for studies on the biochemistry of their haemoglobin, haemolymph, and membrane structure. They have also been used in the disciplines of parasitology, immunology, and embryology.

In conjunction with a desired improvement of the taxonomic evaluation of individual species or genera this group of animals has assumed an unusually large significance for modern phylogenetic and biogeographical research.

Although the chironomids are of considerable importance to limnologists, fishery biologists and a wide range of researchers in other modern scientific disciplines, there is still relatively little

known about them, taxonomically and faunistically, in many regions of the world. Our poor knowledge of the Chironomidae is clearly attributable to the lack of a basic comprehensive literature for species determination even in central Europe and North America. This imperfect situation hinders the entire complex of chironomid research. The problem is accentuated by the fact that the literature dealing with chironomids has been - and undoubtedly will continue to be - published in widely dispersed journals. It is desirable that chironomids should be more systematically investigated in the coming decades, and it was with this intention that the present bibliography of the chironomid literature was compiled. It is hoped that this work will provide a solid basis for further chironomid research, irrespective of the discipline.

This bibliography contains references to approximately 6,400 works. Those publications concerned purely with taxonomy, cytology and physiology are most extensively represented. The general limnology and fishery biology publications are less completely represented, as are other works which only briefly include chironomids within a much broader spectrum of biological and biochemical investigations. This bibliography will be, nevertheless, a significant help for further work not only for the taxonomists but also for ecologists (particularly those in the field of benthos investigations), fishery biologists and researchers in the other disciplines mentioned above.

The bibliography in particular considers all biological journals and book publications accessible to us which are concerned with chironomids. Reports and some M.Sc. and Ph.D. theses have been included, although it is questionable whether or not these should be considered as publications in the strict sense.

So far as possible the early natural science works in which chironomids are cited (e.g. Aristotle) are reviewed.

Press articles, zoological and entomological text-books, and faunistic determination keys in which chironomids are only very briefly mentioned are not considered.

It was our intention to see each work in its original format or as a photocopy. In cases where this was not possible, we were sometimes not able to give a complete reference, and thus the volume number or page numbers may be missing.

This bibliography terminates with the publications in the year 1974. A supplement is planned for the following years to include additions and corrections to the present bibliography. We would like to request users of the bibliography to communicate to any of the authors any errors, omissions, or necessary corrections as well as titles of their new publications so that such amendments may be included in the supplement.

The titles are arranged in the bibliography alphabetically with regard to the name of the author, and then chronologically according to the year of publication. Where additional reference is made to works by an author with co-authors, these follow the single references of the principal author.

The abbreviations to the various journals follow:

Brown, P. and Stratton, G.B. (eds.) 1963-1965: World list of Scientific Periodicals, Published in the years 1900-1960. 4th edition and Supplements, 1964 ff., Butterworths, London.

Porter, K.I. and Koster, C.J. (eds.) 1970: British Union-Catalogue of Periodicals Incorporating World List of Scientific Periodicals. New Periodical Titles 1960-1968 and Supplements 1969 ff., Butterworths, London.

Titles in German, French, Italian, Spanish, Portuguese and Latin are not translated into English. Titles in other languages are translated for the most part into English but sometimes into German or French. Such translations are given in double brackets. References which are only cited in double brackets are translations of original titles which were not available to us. This unsatisfactory procedure was most often adopted in the case of citations of Russian works which were obtained in the reference literature.

Transliteration of the titles of cyrillic publications was made primarily in accordance with the "Draft Table for Modern Russian Letters" from the Style Manual for Biological Journals (Second Edition 1964), published for the Conference of Biological Editors by the American Institute of Biological Sciences, Washington D.C. We have also made use of the version employed by the British Standards Institution and the American Standards Association, Sectional Committee Z 39. Diacritical marks were occasionally omitted.

It was neither intended nor was it possible to arrange the titles according to subject in the scope of the present bibliography. We considered it appropriate, however, to include a rough key to the various subjects in order to alleviate the task of finding pertinent references for those users of the bibliography who are from the fringe disciplines of chironomid research. For this reason one or more index letters are given on the margin beside the reference. The key letters and the subjects they refer to are as follows:

- C - Cytology (including cytomorphology, cytochemistry, karyosystematics, genetics, gene-physiology, molecular biology)
- E - Ecology (including zoogeography, phenology, ethology, culturing methods)
- G - General (comprehensive works, publications dealing with four or more of the subject divisions)
- H - History (including memorials, obituaries, bibliographies of individual authors)
- M - Morphology (including anatomy, histology, morphogenesis, ultra-morphology, metamorphoses, terminology)
- P - Parasitology (including chironomids as parasites and parasites of chironomids, symbiosis, mass outbreaks of chironomids and their control)
- Ph - Physiology (including metabolism, haemolymph, immunology, neurophysiology, experimental morphology)
- S - Systematics (including taxonomy, nomenclature, evolution, phylogeny)

We wish to thank Dr. P. Coffman, University of Pittsburgh, who kindly supplied us with an unpublished manuscript "Towards a Bibliography of the Chironomidae" (Coffman, P. and Walker, W.H. 1973). A few titles were extracted from this manuscript, the preparation of which was completed in 1973. We are also indebted to several other colleagues for making available to us their own literature index cards. When this bibliography was in press, two other lists of a more specialized scope were published

- Davies, T. and Davies, B.R. 1976. A bibliography of the Chironomidae (Diptera) of Africa and adjacent islands: Part 1. - Inst. Freshwat. Res. Stud., Grahamstown, 15 p.
- Grodhaus, G. 1976. Bibliography of Chironomid midge nuisance and control. - Calif. Vector Views 22: 71-81.

which furnished us with several additional titles.

We thank Dr. M. Kownacka, Polish Academy of Science, Kraków, for reviewing and translating titles in the Slavonic languages. This indispensable contribution was made possible in 1973/1974 by a 5-month stipendium from the Max-Planck-Gesellschaft zur Förderung der Wissenschaften.

With great pleasure we thank the Royal Norwegian Society of Sciences and Letters, the Museum, Trondheim, Norway, which has undertaken in a most generous manner the publication of this bibliography. In particular we thank cand.real. K. Aagaard who through his personal supervision of the printing and proof-reading of the manuscript contributed to the formation of the completed volume, and Miss Å. Vanvik who has done the final typing.

Our special thanks are due to the Max-Planck-Institut für Limnologie, Abteilung Tropenökologie, in Plön, where the main part of the work were done.

Not least we wish to thank all the collaborators who were concerned with the initiation and continual compilation of the literature index cards and with the typing of the manuscript in the course of many years: Mrs. I. Birkenhagen, Miss B. Bischewki, Miss G. v. Bütow, Miss I. Heisch, Mrs. K. Junk, Miss C. Lanfer, Mrs. E. Lehmann, Mrs. G. Mair-Konopka.

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VORWORT

In einer schwer überschaubaren und taxonomisch noch weitgehend unzureichend erfassten Fülle von Arten besiedeln die Larven und Puppen der Chironomiden jegliche aquatischen, zum Teil auch semi-aquatischen bis terrestrischen Lebensräume der Kontinente und fehlen selbst nicht im Litoral der Meeresküsten. Mit einem Anteil von etwa 25% stellen sie die weitaus artenreichste Insektengruppe der limnischen Fauna dar und sind in der Regel nicht nur in qualitativer sondern auch quantitativer Hinsicht eine hervorragende biologische Komponente der Ökosysteme stehender und fliessender Gewässer. Das Imaginalstadium dauert nur Stunden oder wenige Tage und dient ausschliesslich der Reproduktion. In gewässernahen Siedlungsgebieten kann das massenhafte Auftreten von schwärmenden und in der Dunkelheit von Lichtquellen angelockten Mücken gelegentlich zu Belästigungen führen. Trotz ihrer bemerkenswerten morphologischen Uniformität weisen die Larven vieler Arten strenge Bindungen an bestimmte ökologische Faktoren auf und haben sich daher in der theoretischen wie angewandten Gewässerkunde als Indikatororganismen bewährt.

Aber nicht nur für den Ökologen und Taxonomen sind diese Insekten seit langem in ihren Erscheinungsformen und in ihrer Verteilung in Raum und Zeit wichtige Forschungsobjekte. Seit Jahrzehnten schon spielen die Chironomidenlarven aufgrund des Besitzes von Riesenzellen und Riesenchromosomen in ihren Speicheldrüsen eine grosse Rolle innerhalb der Cytologie mit ihren verschiedenen Teilgebieten wie Cytomorphologie, Cytochemie, Karyosystematik und Gen-Physiologie. In gleicher Weise haben sich die larvalen Stadien dieser Insekten auch in anderen Fachgebieten wie z.B. der Physiologie, der Biochemie mit Hämoglobin-, Hämolymphe- und Membranforschung, ferner Parasitologie, Immunologie sowie Embryologie und Rhythmikforschung als Labortiere überaus gut bewährt. Hand in Hand mit der sich verbessernden Möglichkeit der taxonomischen Beurteilung der einzelnen Arten hat die Tiergruppe weiterhin eine ungewöhnlich grosse Bedeutung für die moderne phylogenetische und biogeographische Forschung gewonnen.

Obwohl diese Insekten nicht nur für die Limnologie und Fischereibiologie sondern für einen weiten Bereich zum Teil modernster Wissenschaftsbereiche diese grosse Bedeutung haben, gehören die

Chironomiden immer noch zu den taxonomisch ebenso wie faunistisch von weiten Gebieten völlig unzureichend bekannten Tieren. Unsere schlechte Kenntnis dieser Organismen wird deutlich im Fehlen brauchbarer zusammenfassender Bestimmungsliteratur, selbst für Mitteleuropa oder Nordamerika. Diese mangelhaften Voraussetzungen wirken sich hemmend auf den gesamten Komplex der Chironomidenforschung aus. Dies wird noch dadurch verstärkt, dass die vorhandene Literatur, die sich mit Chironomiden befasst, weit gestreut veröffentlicht ist, und weiterhin wird. Es werden vermutlich noch Jahrzehnte vergehen, bis die Chironomiden in befriedigender Weise "systematisch" erfasst worden sind.

Um diesem Ziel näher zu kommen und um eine solidere Basis für weitere Chironomidenforschung, gleich auf welchem Gebiet, zu haben, ist hier der Versuch unternommen worden, eine Bibliographie der gesamten Chironomidenliteratur zusammenzustellen. In dieser nun vorliegenden Bibliographie sind etwa 6400 Arbeiten aufgeführt. Weitgehend vollständig sind die rein taxonomischen Publikationen vertreten. Gleiches liess sich nicht für die allgemein limnologischen und fischereibiologischen Titel und auch nicht für jene Arbeiten erreichen, die zu dem weiten Spektrum der eingangs angedeuteten weiteren biologischen und biochemischen Forschungsrichtungen gehören, die Chironomiden mit einbeziehen. Dennoch wird die Bibliographie keineswegs nur für den Taxonomen sondern in gleicher Weise auch für den Ökologen, insbesondere im Bereich der Benthosforschung, den Fischereibiologen und die Vertreter der übrigen naturwissenschaftlichen Disziplinen ein wichtiges Hilfsmittel für die weitere Arbeit sein.

Im einzelnen sind in die Bibliographie alle uns zugänglichen naturwissenschaftlichen Zeitschriften- und Buchpublikationen aufgenommen worden, die sich mit Chironomiden befassen oder in denen diese Dipterenfamilie erwähnt wird. Eingeschlossen sind Reports, Diplom-, Staatsexamens- und Doktorarbeiten, obwohl es bei einigen dieser Arbeiten fraglich ist, ob es sich im strengen Sinne um Publikationen handelt.

Soweit als möglich wurden auch die historisch-naturwissenschaftlichen Werke berücksichtigt, in denen schon sehr früh Chironomiden erwähnt werden (vgl. Aristoteles).

Nicht aufgeführt wurden Presseartikel, zoologische und

entomologische Lehrbücher sowie faunistische Bestimmungswerke, in denen die Chironomiden nur cursorisch behandelt werden.

Wir waren bemüht, möglichst jede Arbeit im Original oder als Kopie einzusehen. Dennoch blieb uns ein Rest unzugänglich. In einigen dieser Fälle liessen sich unvollständige Zeitschriftenangaben, wie fehlende Band- oder Seitenzahlen, nicht vermeiden.

Die Bibliographie schliesst mit den Publikationen des Jahres 1974 ab. Für die folgenden Jahre ist, zusammen mit den notwendigen Ergänzungen und Korrekturen, ein Nachtrag geplant. Wir möchten in diesem Zusammenhang alle Benutzer der vorliegenden Bibliographie zur entsprechenden Mitarbeit auffordern und sie bitten, Korrektur- und Ergänzungshinweise an einen der Autoren weiterzuleiten.

In der Bibliographie sind die Titel alphabetisch nach Autorennamen und chronologisch nach den Erscheinungsjahren geordnet. Publikationen mit Co-Autoren werden im Anschluss an alle Arbeiten des entsprechenden Autors aufgeführt.

Die Abkürzungen der Zeitschriftenzitate erfolgten nach
Brown, P. and Stratton, G.B. (eds.) 1963-1965: World list of Scientific Periodicals, Published in the years 1900-1960. 4th edition and Supplements, 1964 ff., Butterworths, London.

Porter, K.I. and Koster, C.J. (eds.) 1970: British Union-Catalogue of Periodicals Incorporating World List of Scientific Periodicals. New Periodical Titles 1960-1968 and Supplements 1969 ff., Butterworths, London.

Titeln in deutscher, französischer, italienischer, spanischer und portugiesischer Sprache wurde keine englische Übersetzung beigefügt. Die Titel anderssprachiger Publikationen sind mit einer in doppelten Klammern stehenden, meist englischen, zum Teil auch deutschen oder französischen Übersetzung, versehen. In Doppelklammern stehende Titel stellen Übersetzungen uns unbekannter Originaltitel dar. Dieser unbefriedigende Weg musste des öfteren bei russischen Arbeiten beschränkt werden, die aus referierender Literatur entnommen worden waren.

Die Transliteration von Titeln in kyrillischer Schrift erfolgte vorzugsweise gemäss der "Draft Table for Modern Russian

Letters" aus dem "Style Manual for Biological Journals (Second Edition 1964), published for the Conference of Biological Editors by the American Institute of Biological Sciences, Washington D.C."

Ausserdem benützten wir die Fassung, die von der British Standards Institution und der American Standards Association, Sectional Committee Z 39, verwendet wird. Diakritische Zeichen wurden gelegentlich übergangen.

Im Rahmen der vorliegenden Bibliographie was es weder vorgesehen noch möglich, die Titel detailliert nach Sachgebieten aufzuschlüsseln. Jedoch hielten wir es für zweckmässig, wenigstens einen groben Sachgebietsschlüssel einzuführen, um damit besonders den Benutzern aus den Randdisziplinen der Chironomidenkunde die Suche nach entsprechenden Titeln zu erleichtern. Hierfür wurde jeder Titel am Rand mit einem oder mehreren Buchstaben folgender Bedeutung versehen:

- C - Cytologie (einschliesslich Cytomorphologie, Cytochemie, Karyosystematik, Genetik, Gen-Physiologie)
- E - Ökologie (einschliesslich Zoogeographie, Phänologie, Ethologie, Aufzucht, Methodik)
- G - Allgemeines (umfassende Werke, Publikationen mit mehr als 4 der aufgeführten Sachgebiete)
- H - Geschichte der Chironomidenkunde (einschliesslich Nachrufe)
- M - Morphologie (einschliesslich Anatomie, Histologie, Morphogenese, Ultramorphologie, Metamorphose, Terminologie)
- P - Parasitologie (einschliesslich Chironomiden als Parasiten u. Parasiten von Chironomiden, Symbiose, Massenauftreten u. dessen Kontrolle)
- Ph - Physiologie (einschliesslich Stoffwechsel, Hämolymphe, Immunologie, Neurophysiologie, experimentelle Embryologie)
- S - Systematik (einschliesslich Taxonomie, Nomenklatur, Evolution, Phylogenie)

Von Herrn Dr. P. Coffman, University of Pittsburgh, erhielten wir freundlicherweise ein nicht publiziertes Manuskript zur Einsicht (Coffman, P. and Walker, W.H. 1973: Towards a Bibliography of the

Chironomidae), wofür wir an dieser Stelle danken. Aus diesem Manuskript sind einige wenige Titel in die vorliegende Bibliographie übernommen worden, deren Erstellung 1973 schon weitgehend abgeschlossen war. Auch einigen anderen Kollegen sind wir für das Bereitstellen von Literaturkarteien zu Dank verpflichtet.

Während des Drucks dieser Bibliographie erschienen zwei Bibliographien, die sich mit Teilgebieten der Chironomidenkunde befassen, und aus denen einige zusätzliche Titel übernommen werden konnten:

- Davies, T. and Davies, B.R. 1976. A Bibliography of the Chironomidae (Diptera) of Africa and adjacent islands: Part 1. - Inst. Freshwat. Res. Stud., Grahamstown, 15 p.
- Grodhaus, G. 1976. Bibliography of Chironomid midge nuisance and control. - Calif. Vector Views 22: 71-81.

Frau Dr. M. Kownacka, Polnische Akademie der Wissenschaften, Krakau, danken wir für die Durchsicht und Übersetzung slawischsprachiger Titel. Diese notwendige Arbeit wurden 1973/74 durch ein 5-monatiges Stipendium der Max-Planck-Gesellschaft zur Förderung der Wissenschaften ermöglicht.

Mit besonderer Freude danken wir der Königl. Norwegische Gesellschaft der Wissenschaften, das Museum, Trondheim, Norwegen, die den Druck der Bibliographie in grosszügiger Weise übernommen haben. Dieser Dank gilt vor allem Herrn cand.real. K. Aagaard, der durch seinen persönlichen Einsatz das Schreiben des druckfertigen Manuskripts überwacht und beim Lesen der Korrekturen und der Gesamtgestaltung des Bandes mitgewirkt hat sowie Frl. Å. Vanvik für das Schreiben der Druckvorlagen.

Ausserdem gilt unser besonderer Dank dem Max-Planck-Institut für Limnologie, Abteilung Tropenökologie, in Plön, an dem der Hauptteil der Arbeit geleistet wurde.

Nicht zuletzt möchten wir allen Mitarbeitern danken, die am Aufbau und der Weiterführung der Literaturkartei und am Schreiben des Manuskriptes im Verlauf mehrerer Jahre beteiligt waren: Frau I. Birkenhagen, Frl. B. Bischewski, Frl. G. v. Bütow, Frl. I. Heisch,

Frau K. Junk, Frl. C. Lanfer, Frau E. Lehmann, Frau G. Mair-Konopka.

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- A**
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