

BOOK REVIEW

An annotated bibliography of Antarctic invertebrates (terrestrial and freshwater), William Block, British Antarctic Survey, Natural Environment Research Council, 263 pp., 1992 ISBN 0 85665 148 6

In 1992, there appeared a major tool for all scientists involved in biological studies of the Antarctic, namely the voluminous work by William Block: "An annotated bibliography of Antarctic invertebrates (terrestrial and freshwater)". This author was assisted by several collaborators: S.J. Benton, S. Chambers, P. Harrison, S. Lahav, A. Lawrence and C. Ryan.

Dr William Block of British Antarctic Survey, Cambridge, is a renowned authority in the field of the knowledge of Antarctic land Arthropoda. In last two decades he has published over 40 papers dealing with various aspects of the biology and eco-physiology of Antarctic and sub-Antarctic terrestrial arthropods, mainly Acarina and Insecta.

Historical scope of this bibliography encompasses the period of some 170 years, beginning from French "Coquille" expedition of early twentieths of the 19th century, when first Antarctic invertebrates were recorded, and ending in 1990.

Geographical scope follows Holdgate (1977, Phil. Trans. Roy. Soc. London B, 279: 5-25) and outside the Antarctic continent itself it comprises most of sub-Antarctic islands except for Antipodes, Campbell, Auckland and Amsterdam and St. Paul islands.

Bibliography includes over 1400 entries. Nearly all of them are supplied with an abstract well presenting the contents of the paper. Abstracts are divided into following sections: taxonomic group, ecology, physiology and systematics. Very useful parts of the bibliography are thoroughly prepared: Classification, Taxonomic, Species, Authors, Subject, Geographical and Expeditions indexes. These indexes perfectly facilitate the search for any information needed. Noteworthy are nice pictures of over 30 Antarctic terrestrial invertebrates, mainly mites, insects, rotifers and water-bears, decorating both front and back covers as well as the text of the whole bibliography.

In this ample set of literature entries I have found a few unnecessary ones. In several cases papers are included that do not fit to the terrestrial and freshwater scope of the book. These cases are entries 12, 340, 720 and 1358, i.e. the papers by Androsova (1981), Dell (1972), Lazzaretto and Libertini (1986) and Sassi and Melo (1986) where marine animals are treated (Bryozoa, Mollusca, Harpacticoida and Tintinnidae -- respectively). Therefore in the Classification index phylum Bryozoa and in Taxonomic and Species indexes such genera as *Tisbe* (Harpacticoida) and *Bathynomus*, *Carditella* and *Solariella* (Mollusca) are to be removed from all indexes. The case of the entry 871 is more complicated. In fact, only one species of Amphipoda recorded in this paper from South Georgia by Pfeffer (1888) could be regarded as a terrestrial one since it inhabits the supralittoral; it is *Allorchestes georgianus*, which, in fact, is a junior synonym of *Hyale hirtipalma* (Dana, 1852). All other species mentioned in the abstract and in the Taxonomic and Species indexes are purely marine ones and as such they should be removed from page 126 and from the indexes. On the other hand it is debatable whether this bibliography should include data on all invertebrates occurring in the uppermost littoral and/or supralittoral of the Antarctic and sub-Antarctic regions. In the group that is familiar to the reviewer — in amphipod Crustacea alone — over 15 species of the families Hyalidae and Talitridae s.str. were recorded in this habitat that constitutes a contact zone between the land and the Southern Ocean (see Lowry and Bullock, 1976. Catalogue of the marine gammaridean Amphipoda of the Southern Ocean. Bull. Roy. Soc. N. Zealand, 16, and De Broyer

and Jażdżewski, 1993. Contribution to the Marine Biodiversity Inventory: a Checklist of the Amphipoda (Crustacea) of the Southern Ocean. Doc. Trav. Inst. roy Sci nat. Belgique, 73). Taking only the case of the above mentioned *Hyale hirtipalma* that was several times found outside South Georgia also on Kerguelen, Crozet and Macquarie islands some 10 additional entries would be necessary.

Taking into account all talitroid amphipods (beach hoppers) hitherto recorded from the shores of the Southern Ocean the scope of the bibliography would be much enlarged. Moreover one can expect that in such supralittoral habitats much more invertebrate animals, that could be collected directly from land, are nearly or really "terrestrial". However, in my opinion at least those of purely marine origin or of clear marine affinities should be rather treated in marine bibliographies and not in the presently reviewed one.

Anyway, taking into account the modern systematics of Amphipoda, in the W. Block's bibliography in the Classification index (p. 212) the family name Gammaridae for *Allorchestes georgianus* (= *Hyale hirtipalma*), if retained, should be changed to Hyalidae and to Bogidiellidae for *Kerguenella* (now *Kergueleniola*; see Ruffo S., 1974. Boll. Mus. Civ. Storia Nat., Verona, 1).

These minor inaccuracies do not change the reviewers absolutely enthusiastic opinion on the W. Block's bibliography. This book is really an inappreciable help, especially for zoologists working on the systematics, biology, eco-physiology and zoogeography of land and freshwater invertebrates of the whole Antarctic realm. It is a true milestone on our way to the knowledge and understanding of the structure and functioning of Antarctic terrestrial and freshwater ecosystems.

Krzysztof JAŹDŹEWSKI

Łódź

The British Antarctic Survey (BAS) is the United Kingdom's national Antarctic operation. It is part of the Natural Environment Research Council. With over 400 staff, BAS takes an active role in Antarctic affairs, operating five research stations, two ships and five aircraft in both polar regions, as well as addressing key global and regional issues. This involves joint research projects with over 40 UK universities and more than 120 national and international collaborations. 13 An annotated bibliography of Antarctic invertebrates (terrestrial and freshwater), William Block, British Antarctic Survey, Natural Environment Research Council 1992, 63 pp., ISBN 0 85665 148 6. Krzysztof Jankowski. Polish Polar Research | 1993 | vol. 14 | No 1 | 115-116. British Antarctic Survey (BAS) delivers and enables... A study from researchers at Liverpool John Moores University (LJMU), Queen's University Belfast and British Antarctic Survey (BAS), led by Eoghan Ónús Cunningham, LJMU, took samples from remote parts of the Antarctic Peninsula, South Georgia and the Sandwich Islands to examine microplastic content. The scientists found microplastic pollution exists on the seabed in Antarctica in the same quantities as in the North Atlantic and Mediterranean. Co-author Dr Katrin Linse, a senior biodiversity biologist at BAS, says Marshall British Antarctic Survey William A. Marshall University of Nottingham, United Kingdom Robert A. Massom Department of the Environment and Heritage, Australian Antarctic Division and Antarctic Climate and Ecosystems Cooperative Research Centre, University of Tasmania, Australia xiv. Mike Meredith British Antarctic Survey Gennady Milinevsky Ukrainian Antarctic Center Denzil G. M. Miller Commission for the Conservation of Antarctic Marine Living Resources, Tasmania, Australia Gary D. Miller University of New Mexico Leif Mills Surrey, United Kingdom Harm Moraal North West University, South