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A BIBLIOGRAPHY OF THE ARCTIC CHARR,
Salvelinus alpinus (L.) COMPLEX TO 1980

by

K. E. Marshall

Western Region
Department of Fisheries and Oceans
Winnipeg, Manitoba R3T 2N6

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ABSTRACT

MARSHALL, K.E. 1981 A bibliography of the arctic charr, Salvelinus alpinus (L.) complex to 1980. Can. Tech. Rep. Fish. Aquat. Sci. 1004: iv + 68 p.

Lists 1623 references published between the 17th Century and 1980. In addition to arctic charr, Salvelinus alpinus (Linnaeus), of North America and Europe, the bibliography covers the other closely related taxa inhabiting the waters of Russia and Japan, including the dolly varden, S. malma (Walbaum) and white-spotted char, S. leucomaenis (Pallas). The bibliography proper is in alphabetical order by author. Taxonomic, geographic and subject indices are provided.

Key words: bibliographies; dolly varden.

RESUME

MARSHALL, K.E. 1981 A bibliography of the arctic charr, Salvelinus alpinus (L.) complex to 1980. Can. Tech. Rep. Fish. Aquat. Sci. 1004: iv + 68 p.

Comprend 1623 ouvrages publies depuis le XVII^e siecle jusqu'a 1980. L'auteur repertorie non seulement les ouvrages relatifs a l'omble chevalier, Salvelinus alpinus (Linnaeus), mais aussi ceux portant sur les especes apparentees qui vivent dans les eaux de la Russie et du Japon, y compris la dolly varden, S. malma (Walbaum) et l'omble Salvelinus leucomaenis (Pallas). La bibliographie elle-meme est en ordre alphabetique selon les auteurs. Elle contient egalement des index taxinomiques et geographiques et un index des sujets.

Mots-cles: bibliographies; dolly varden.

INTRODUCTION

This bibliography has been prepared for the delegates attending the International Symposium on Arctic Charr to be held in Winnipeg in May 1981. It is hoped that this bibliography forms a list of the major publications on the fishes belonging to the arctic charr complex to 1980.

In 1977 the bibliography to 1976 was published as Technical Report No. 621 (Marshall 1977). This bibliography forms the basis for the new one. In view of the fact that stocks of this report were recently exhausted, it was decided to produce a completely new bibliography rather than reprint the old report with a new supplement to update it.

Since preparing the original bibliography I have been maintaining a list of new references by running a profile on the CAN/SDI Service for all references on the genus Salvelinus. In addition note has been made of any reports and other publications dealing with the arctic charr complex which have been received in the Freshwater Institute Library. Following the publication of the Charr book (Balon 1980), the bibliographies in that work were checked against the references already on file and some additional relevant items added. In January 1981 online searches were made on a variety of data bases to which the Institute library has access and some additional references added. A search was also made by the Fish and Wildlife Reference Service and the items retrieved are included in this bibliography. It was realized that this last search was by no means complete especially on the publications from the State of Alaska. The set of publications from this State in the Institute library was scanned for additional references. The volumes of the Zoological Record issued since the publication of Report No. 621 were also searched for relevant items.

The opportunity has been taken to correct some errors which were found in Report No. 621 and also to complete some of the references which lacked page numbers or other details.

It must again be stressed that in many cases the original papers have not been available to check that the details given are correct and as we all know errors do happen even in the best reference sources.

The format adopted is the same as that in Report No. 621 which was similar to that used in the Zoological Record.

FORMAT

The bibliography is divided into four sections:

1. Author Index

References are listed in alphabetical order by author. Works by same author are arranged by year of publication, the oldest being listed first. Papers written in cooperation with others are listed after those by the senior author alone

in alphabetical order by second author. There are no cross references from junior authors. Anonymous works are entered either under the name of the issuing organization or the title.

This index is the bibliography proper. A small number of annotations have been made to some of the titles to indicate more clearly the relevance of this item. In the case of large works I have added in parentheses (), at the end of the citation, the pages on which reference is made to relevant species.

As far as possible the title of the paper in the language in which it is written is given following the year of publication. If this title is enclosed in brackets [], this title is not given in the original work. A title enclosed in parentheses is taken from the publication (or its translation) but is in a language, usually English, other than that in which the original paper is written. There will usually be a note at the end of the citation indicating the language in which the article is written when the original title is not indicated. Russian titles have been transliterated. Those references which I have transliterated are done using the system followed by Chemical Abstracts. Citations taken from other sources may show some slight variation from this system if I have not been able to obtain the title in the original language. Japanese titles have been translated, using the title in English from the original journal when this is available. Accents and other diacritical marks have been omitted.

Abbreviations for journals have been made according to the Serial Sources for the BIOSIS Data Base Volume 1980. Those journals not listed in this work have been abbreviated following the same format except in those cases where it has not been possible to identify for certain the full title of the journal in question. In this case, the abbreviation has been given in the form found.

Each reference is numbered and these are the numbers used in the other indexes.

At the end of the Author Index there is a short Addendum (references No. 1567-1627) which lists some references which were found after the final preparation of the bibliography was started. These are fully indexed in the same way as the other references. Cross references to these papers are to be found in the main part of the Author Index.

2. Taxonomic Index

This lists, in alphabetical order, the various subgeneric taxa which have been used by authors for fish from the complex. No distinction has been made as to the status ascribed to that taxon by an author (whether species, subspecies, form or variety). It has proved difficult to index some papers as thoroughly as I would wish due to a lack of scientific terminology. Where it was clear as to the species being discussed, I have entered the item under the usual current name for that species. However, some papers which discuss in general terms speciation or variation in anatomy and give no scientific names for the specimens under discussion are not indexed to species.

3. Geographic Index

This index identifies the geographic areas, when this is of significance, covered by the reference. The two main divisions are into the Palaearctic and Nearctic Regions. Each region is broken down into countries. The larger countries may be subdivided into States, Provinces or other subdivisions. It should be noted that references are only listed under the most specific heading. For instance references indexed under Alberta are not listed under Canada.

4. Subject Index

The subject headings chosen are not taken from any standard thesaurus. The headings in this report are an expanded list of those used in Report No. 621. Notes follow those subject headings which are not self-explanatory indicating the type of material indexed under that heading.

In view of the fact that many of the references have not been seen in the original, the indexing has been based on the information given by the citing source. It is, therefore, probable that in some cases, information is present in some papers on subjects not indicated in my indexes. It is also possible that I have been misled by some authors into assuming information is present which on close examination may be found to be lacking. My apologies for any inconvenience caused but I have attempted to deal with such unseen material on the basis of the information available.

SOME NOTES ON THE USE OF THE INDEXES

For the benefit of those not familiar with the type of indexes provided, these notes may be of some help in locating references on specific topics.

To locate references on the reproduction of charr in England, for example, compare the list of numbers under the heading "England" in the geographic index with those under "reproduction" in the subject index. Those numbers which occur in both lists are potentially relevant references. Should one wish to narrow the search to the charr from Windermere (S. willughbi), then a third list of numbers, those under "willughbi" from the taxonomic index should be included in the search and only those numbers common to all three lists will be the desired references. To find the full bibliographic details look these numbers up in the Author Index.

CONCLUSION

No bibliography can ever be considered complete and it is recognized that the present compilation is no exception. It is my intention to continue to collect references and in perhaps five years time, a supplement will be issued to update this report. In order to make any update as complete as possible, it would be appreciated if authors would draw my attention to relevant publications not listed here. Any

errors that have arisen in the preparation of this report can be corrected in an update so please let me know about them.

Please send your comments to:

K. E. Marshall
Head, Scientific Information Services and Library
Freshwater Institute Library
501 University Crescent
Winnipeg, Manitoba, Canada, R3T 2N6

ACKNOWLEDGMENTS

It was at the request of Dr. L. Johnson that the preparation of this bibliography was started. Thanks are due for his continuous support and for his help in correcting some of the citations found, which proved to be incorrect in various details.

Lesley McIver and Mary Layton have provided invaluable assistance in preparing the bibliography for publication.

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TAXONOMIC INDEX

agassizi
146 769albus
146 445alipes
318 381 488 501 1181 1182alpinus

1 2 3 7 8 10 12 16 17 18 19 34 35 36 39 40 41
 42 44 45 46 47 49 52 62 64 65 88 89 97 107 111
 112 115 116 117 118 122 123 128 131 132 133 145
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anaktuvukensis
146 235 405 605 769 877 946 947 949 1193andriaschevi
146 160 239 1202 1585 1606arabatsch
280 646arcturus
296 450 499 501 644 646aureolus
138 145 146 235 555 644 646 667 671 672 690
691 692 693 854 886 920 923 1003 1133 1134
1208 1210 1211 1323 1470bairdii
133 646 648 966 1372 1373boganiidae
145 160 312 1245 1247 1253 1456 1567 1586 1606callaris
341 646 648 957 1083cambricus
296 486campbelli
605 646 648 966 1372 1373colii
261 294 296 310 486 488 575 1513 1514 1515 1619confluentus
146 234 235 769 961curilus
51 146 151 158 159 160 280 488 492 646 780 854
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146 160 1245 1586drjagini
43 145 160 794 804 921 1112 1241 1245 1246
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280 646 957fimbriatus
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488 1180 1181 1182imbrius
146 235 650 979 1055 1318immaculatus
646 1370

<u>murta</u> 401	<u>segosericus</u> 145 1330
<u>naresi</u> 318 490 501 644 646	<u>spectabilis</u> 303 375 439 637 641 642 646 648 854 966 988 1044 1340
<u>neiva</u> 145 146 160 312 1202 1212 1245 1343 1400 1454 1475 1476 1586 1606	<u>stagnalis</u> 146 318 381 450 501 644 646 1500
<u>niger</u> 401	<u>struanensis</u> 296 434
<u>nitidus</u> 646 1181 1182	<u>taimyri</u> 145 1112 1456
<u>nivalis</u> 486 488	<u>taimyricus</u> 145 146 160 921 1246 1247 1248 1253 1456 1457 1586 1595
<u>nummifer</u> 280 646 957	<u>tapidisma</u> 280 646
<u>obtusus</u> 1162	<u>taranetzi</u> 146 239 656 1202 1247
<u>oquassa</u> 113 119 121 141 145 146 219 369 370 371 428 438 450 488 501 555 635 644 646 667 670 672 685 854 920 923 1024 1081 1133 1203 1210 1211 1246 1369 1470 1502 1538	<u>tolmachoffi</u> 145 160 1245 1247 1253 1567 1586 1606
<u>parkei</u> 374 396 501 641 646 651 1372 1373	<u>trevelyanii</u> 1162 1166
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<u>plunicus</u> 1396	<u>umbila</u> 11 182 280 293 296 486 488 525 534 535 559 614 654 709 793 840 941 1140 1143 1145 1262 1263 1413 1414 1499 1521 1550 1583 1584
<u>pluvius</u> 48 145 146 211 235 552 567 568 650 651 661 736 854 957 979 1022 1023 1027 1055 1056 1064 1227 1317 1381 1382 1399 1553	<u>willughbi</u> 19 108 261 294 296 406 407 408 409 411 412 413 414 415 486 488 687 688 689 766 767 819 854 1387 1388 1389 1503 1536 1577 1596
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<u>profundus</u> 145 146 235 418 1042 1254 1261	
<u>rivalis</u> 381 646	
<u>rossii</u> 450 646 1181 1182	
<u>saghaliensis</u> 1065	
<u>salvelinus</u> 146 181 182 191 193 204 229 280 296 308 310 394 418 486 488 525 535 553 614 659 707 743 793 840 912 998 999 1020 1024 1042 1171 1214 1245 1262 1263 1265 1281 1319 1364 1413 1429 1478 1499 1536 1550 1606 1608 1609 1610	
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<u>schiffermuelleri</u> 394 707	

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Arctic
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Europe
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828 840 855 977 999 1094 1173 1264 1319 1478
1520 1575

Austria
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535 912 1040 1093 1362

Tyrol
1095 1291 1292 1293

Bear Island
678

British Isles
261 294 296 310 403 486 575 614 826 827 828
838 981 1099 1165 1167 1413 1429 1520 1521
1550 1590

England
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Ireland
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Scotland
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1623 1624 1625

Wales
243 386

Czechoslovakia (Bohemia)
1143 1608 1609

Finland (see also: Scandinavia)
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France
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Germany
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Bodensee
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Iceland
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Italy (see also: Austria, Tyrol)
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Jan Mayen Island
675 676 1326 1327

Japan
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567 568 569 570 598 601 638 650 651 653 661
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1576 1615

Korea
943 944 945

Manchuria
156 932

Norway (see also: Scandinavia)
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464 481 584 585 609 611 612 613 675 676 700
701 702 703 750 751 809 860 1029 1030 1031
1032 1122 1324 1365 1431 1432 1507 1508 1627

Poland (Gdansk Bay)
1213

Scandinavia (see also: Norway, Sweden and
Finland)
349 468 518 1016 1020 1021 1338 1605

Svalbard (=Spitzbergen)
285 482 483 485 675 676 841

Sweden (see also: Scandinavia)
34 47 206 277 278 350 383 391 393 416 448 449
469 493 542 543 545 546 787 788 789 790 791
792 805 812 813 839 1013 1014 1015 1017 1018
1019 1049 1217 1218 1219 1220 1221 1337 1384
1385 1604

Switzerland (incl. Alpine lakes not identified
as in other countries)
118 220 297 387 524 1145 1214 1215 1216 1265
1363 1364 1499 1501 1564 1584

Leman, Lac (Lake Geneva)
49 276 335 336 654 707 759 760 810 811 863

Neuchatel, Lac
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U.S.S.R.
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1235 1252 1344 1371 1400 1402 1404 1498 1565
1573 1580 1594

Amur Region
155 341 342 741 1008 1009 1011 1198 1405 1587

Baikal, Lake
153 313 985

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SUPPLEMENT TO:

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Salvelinus alpinus (L.) complex to 1980. Can.Tech.
Rep.Fish.Aquat.Sci. 1004.

The following references have been noted since the report
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DICK, T.A. & M. BELOSEVIC 1981 Parasites of arctic charr,
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347.

KRISTOFFERSON, A.H. & G.W. CARDER 1980 Data from the commer-
cial fishery for arctic char, Salvelinus alpinus (Linnaeus),
in the Cambridge Bay area, Northwest Territories. Can.Data
Rep.Fish.Aquat.Sci. 184: v + 25 p.

SHAPOVALOV, L., A.J. CORDONE & W.A. DILL 1981 A list of the
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ZALENSKII, A.O., P. BUKHKHOL'TS, P. & R.Kh. IBRAGIMOV 1980
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(S.malma, evolution)

The first three items listed are in the Freshwater Institute
Library.

K.E. Marshall
1 May 1981

