

Northwest Atlantic



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Provisional Index and List of Titles of Research and

Summary Documents for 1988

by

NAFO Secretariat

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Introduction

The Scientific Council has agreed that research (SCR) and summary (SCS) documents should be indexed on an annual basis and that these provisional indexes be combined for publication at 5-year intervals. The first NAFO issue of Index of Meeting Documents for 1979-84 was published in March 1985. The provisional indexes for 1985, 1986 and 1987 were issued as NAFO SCS Doc. 86/7 (Serial No. N1118), NAFO SCS Doc. 87/2 (Serial No. N1282) and NAFO SCS Doc. 88/09 (Serial No. N1436) respectively. The current provisional index relates to all SCR documents (No. 1-100) and SCS documents (No. 1-23) for the calendar year 1988.

The list of SCR and SCS documents for 1988 in the first section of this document maintains the previous format and is arranged by consecutive document number.

Compilation of the 1988 author index generally follows guidelines that were used in preparing the Index of Meeting Documents for 1979-84. Each of the research and summary documents is identified by its 3-character code (i.e. SCR or SCS), followed by the last two digits of the year of issue, and oblique (/), and then the designated document number. This is followed in parentheses by a shortened version of the title or an expression which indicates the object of the referenced paper.

The 1988 subject index follows the same format as the author index. However, it differs from previous subject indexes in that the text between parentheses is not altered from that used in the author index.

LIST OF RESEARCH AND SUMMARY DOCUMENTS, 1988

RESEARCH DOCUMENTS (SCR)

<u>Doc. #</u>	<u>Ser. #</u>	
88/01	N1432	<u>STEIN, M.</u> Revision of list of NAFO standard oceanographic sections and stations. (9 pages)
88/02	N1434	<u>TIZOL, R., and C. GARCIA.</u> Age and growth of silver hake (<i>Merluccius bilinearis</i>) on the Scotian Shelf. (2 pages)
88/03	N1438	<u>RIKHTER, V. A., and V. F. TUROK.</u> Distribution of silver hake, other fish species and squids in 1987 on the Scotian Shelf slopes from the Soviet observers data. (14 pages)
88/04	N1439	<u>RIKHTER, V. A.</u> On possible assessment of relative TAC value after the example of the Scotian silver hake (Div. 4VWX). (5 pages)
88/05	N1440	<u>SIGAEV, I. K.</u> Distribution of autumn water temperature anomalies on the Scotian Shelf in 1986 and their relative changes in recent decade, 1977-1986. (8 pages)
88/06	N1441	<u>BENWAY, R. L.</u> Water column thermal structure across the shelf and slope southeast of Sandy Hook, New Jersey in 1987. (7 pages)
88/07	N1442	<u>BARTON, K. W., and M. H. SANO.</u> Anticyclonic warm core Gulf Stream rings off the northeastern United States during 1987. (20 pages)
88/08	N1443	<u>STROUT, G. A.</u> Variation in the shelf water front position in 1987 from Georges Bank to Cape Hatteras. (8 pages)
88/09	N1445	<u>NAKASHIMA, B. S., and R. W. HARNUM.</u> The inshore capelin fishery in NAFO Div. 3L in 1987. (16 pages)
88/10	N1446	<u>RIGET, F., and J. BOJE.</u> Mean length-at-age of Atlantic halibut (<i>Hippoglossus hippoglossus</i>) in West Greenland. (4 pages)
88/11	N1447	<u>NAKASHIMA, B. S.</u> Capelin school surface area index for NAFO Div. 3L, 1982-87. (11 pages)
88/12	N1448	<u>RIGET, F., J. BOJE, and K. LEHMANN.</u> By-catches of Greenland halibut and redfish in the shrimp fishery at West Greenland. (15 pages)
88/13	N1449	<u>BOJE, J., and F. RIGET.</u> Maturity stages in March and August of Greenland halibut in Div. 1A, West Greenland. (7 pages)
88/14	N1450	<u>RIGET, F., and J. BOJE.</u> Length-weight relationship and condition factor of Greenland halibut in West Greenland waters. (12 pages)
88/15	N1451	<u>STOLYARENKO, D. A., A. K. CHUMAKOV, and A. G. GALUSO.</u> An application of the spline approximation method for design and data analysis of trawl surveys of commercial fish stocks in the Northwest Atlantic. (16 pages)
88/16	N1452	<u>BULATOVA, A. Yu., A. G. GALUSO, and S. A. KUZMIN.</u> Cod stock estimation and yield-per-recruit analysis for Div. 3NO. (16 pages)
88/17	N1453	<u>SAVVATIMSKY, P. I.</u> Investigations of roughhead grenadier (<i>Macrourus berglax</i> L.) in the Northwest Atlantic in 1967-83. (41 pages)
88/18	N1454	<u>BAKANEV, V. S., and I. A. OGANIN.</u> Ichthyoplankton investigations for the capelin 1987 year-class strength in NAFO Div. 3KLN0. (11 pages)
88/19	N1455	<u>BAIRD, J. W., and C. A. BISHOP.</u> Assessment of the cod stock in NAFO Div. 3NO. (47 pages)
88/20	N1456	<u>BISHOP, C. A., J. W. BAIRD, and R. WELLS.</u> Yield-per-recruit analyses for cod in Div. 3NO. (5 pages)
88/21	N1457	<u>MAZHIRINA, G. P.</u> Some information on the development of ovaries in <i>Benthosema glaciale</i> from different areas of the North Atlantic. (11 pages)

- 88/22 N1458 ALBIKOVSKAYA, L. K., O. V. GERASIMOVA, and S. M. KOTLYAROV. Feeding peculiarities of the main commercial fishes on the Flemish Cap and northern Newfoundland Banks in spring-summer 1987. (12 pages)
- 88/23 N1459 BAKANEV, V. S., and V. S. MAMYLOV. Hydroacoustic surveys of the capelin stocks in NAFO Div. 2J+3KLNO in 1987. (11 pages)
- 88/24 N1460 MAMYLOV, V. S. Experimental trawl-acoustic survey in NAFO Subarea 3 from March to July 1987. (27 pages)
- 88/25 N1461 POWER, D., and D. B. ATKINSON. The redfish resource in NAFO Div. 3M. (9 pages)
- 88/26 N1462 ATKINSON, D. B., and D. POWER. Roundnose grenadier in NAFO SA 0+1 and 2+3. (11 pages)
- 88/27 N1463 ATKINSON, D. B., and D. POWER. An assessment of the redfish in NAFO Div. 3LN. (15 pages)
- 88/28 N1464 WALSH, S. J., and W. B. BRODIE. American plaice distribution on the nose and tail of the Grand Bank. (12 pages)
- 88/29 N1465 RIKHTER, V. A. Assessment of stock size and TAC of the Scotian (Div. 4VWX) silver hake for 1989. (17 pages)
- 88/30 N1466 RIKHTER, V. A. More on estimating the instantaneous natural mortality rate for the Div. 4VWX silver hake. (7 pages)
- 88/31 N1469 YAMADA, H., K. OKADA, and O. JØRGENSEN. West Greenland groundfish biomasses estimated from a stratified-random trawl survey in 1987. (6 pages)
- 88/32 N1470 YATSU, A., H. YAMADA, and O. JØRGENSEN. Length-weight relationship, condition factor, gonad index and stomach contents of Greenland halibut, *Reinhardtius hippoglossoides*, around Greenland in 1987. (12 pages)
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- 88/33 N1471 ZAMARRO, J. Spawning process of the yellowtail flounder (*Limanda ferruginea*). (11 pages)
- 88/34 N1473 YAMADA, H., K. OKADA, and O. JØRGENSEN. Distribution, abundance and size composition of Greenland halibut estimated from a stratified-random trawl survey off West Greenland in 1987. (6 pages)
- 88/35 N1474 YAMADA, H., K. OKADA, and O. JØRGENSEN. Distribution, abundance and size composition of redfish (*Sebastes marinus* and *S. mentella*) estimated from a stratified-random trawl survey off West Greenland in 1987. (9 pages)
- 88/36 N1475 STEIN, M., and J. MESSSTORFF. Are fluctuations in cod recruitment off West Greenland related to long-term variations of the physical environment. (14 pages)
- 88/37 N1477 BRODIE, W. B. An assessment of the American plaice stock in Division 3LNO. (51 pages)
- 88/38 N1478 BRODIE, W. B., and S. J. WALSH. An update on the status of the yellowtail flounder stock in Divisions 3LNO. (42 pages)
- 88/39 N1479 MILLER, D. S., and J. E. CARSCADDEN. Biomass estimates from two hydroacoustic surveys for capelin (*Mallotus villosus*) in NAFO Divisions 3L and 3N. (7 pages)
- 88/40 N1480 BOWERING, W. R. Biomass estimates of Greenland halibut in NAFO Div. 2GH from post-stratified and stratified Canadian groundfish surveys. (12 pages)
- 88/41 N1481 CHUMAKOV, A. K., and W. R. BOWERING. Post-stratified biomass and abundance estimates of Greenland halibut from USSR surveys in Subareas 0+2 and Division 3K. (20 pages)
- 88/42 N1482 HOVGÅRD, H., and K. H. NYGÅRD. Young cod distribution and abundance in West Greenland inshore areas, 1987. (11 pages)
- 88/43 N1483 HOVGÅRD, H., K. H. NYGÅRD, and K. M. LEHMANN. Inshore and offshore distribution and abundance of the West Greenland cod stock, autumn 1987. (13 pages)

- 88/44 N1484 HOVGÅRD, H., and S. CHRISTENSEN. Migration patterns of cod (*Gadus morhua*) in West Greenland waters. (18 pages)
- 88/45 N1485 SCHUMACHER, A. Status of Subarea 1 cod and the fisheries. An extract of the report of the ICES Working Group on cod stocks off East Greenland, Copenhagen, 11-23 February 1988. (37 pages)
- 88/46 N1486 HOVGÅRD, H. Expected length distribution of cod in West Greenland waters, 1988-90. (7 pages)
- 88/47 N1487 SMEDSTAD, O. M., and S. TORHEIM. Norwegian investigations on shrimp (*Pandalus borealis*) in East Greenland waters in 1987. (11 pages)
- 88/48 N1488 SMEDSTAD, O. M. Preliminary report of a cruise with M/T *Masi* to East Greenland waters in September 1987. (10 pages)
- 88/49 N1489 SLOTH, P., and E. BUCH. Correlation between winter ice coverage in the Greenland Sea and the summer temperatures at Fylla Bank, West Greenland? (7 pages)
- 88/50 N1490 BERTRAND, J., J. C. POULARD, A. BATTAGLIA, and P. DERIBLE. Catch, effort and biological data of shrimp (*Pandalus borealis*) in the French fisheries off Greenland in 1986 and 1987. (17 pages)
- 88/51 N1491 WALDRON, D. E., L. P. FANNING, M. C. BOURBONNAIS, and M. A. SHOWELL. Size of the Scotian Shelf silver hake population in 1987. (33 pages)
- 88/52 N1492 PARSONS, D. G., and P. J. VEITCH. The Canadian fishery for northern shrimp (*Pandalus borealis*) in Division OA, 1987. (10 pages)
- 88/53 N1493 PARSONS, D. G., V. L. MERCER, and P. J. VEITCH. A comparison of the growth of northern shrimp (*Pandalus borealis*) from four regions of the Northwest Atlantic. (12 pages)
- 88/54 N1494 KEELEY, J. R. Marine Environmental Data Service report for 1987/1988. (19 pages)
- 88/55 N1495 BERTRAND, J., A. MAUCORPS, and J. C. POULARD. Shrimp abundance indices from the French fisheries off East and West Greenland. (4 pages)
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- 88/58 N1498 LUND, H. Greenland fishery for shrimp (*Pandalus borealis* Kr.) in NAFO Division 1A (Greenland management areas NV1 and NV2) in 1986 and 1987. (15 pages)
- 88/59 N1499 LUND, H. On environment and reproduction of the West Greenland shrimp stock (*Pandalus borealis* Kr.) north of 71°N (NAFO Division 1A). (15 pages)
- 88/60 N1501 DRINKWATER, K. F., and R. W. TRITES. Overview of environmental conditions in the Northwest Atlantic in 1987. (24 pages)
- 88/61 N1502 LODER, J. W., and C. K. ROSS. Moored current and hydrographic measurements on the southeast shoal of the Grand Bank in 1986 and 1987. (20 pages)
- 88/62 N1505 RICE, J. C., and S. A. AKENHEAD. Reducing dimensionality in the temperature and salinity data from Station 27: same data, different analyses. (13 pages)
- 88/63 N1507 RICE, J. C. Report of 1987 Meeting of Marine Environment and Ecosystems Subcommittee of CAFSAC. (2 pages)
- 88/64 N1506 HALLGRIMSSON, I., and U. SKULADOTTIR. The Icelandic shrimp (*Pandalus borealis*) fishery in the Denmark Strait in 1987. (10 pages)
- 88/65* N1508 MYERS, R. A., S. A. AKENHEAD, and K. F. DRINKWATER. The North Atlantic oscillation and the ocean climate of the Newfoundland shelf. (22 pages)

- 88/66 N1509 MYERS, R. A., and K. F. DRINKWATER. Wind-driven currents and larval fish survival. (17 pages)
- 88/67 N1510 CARLSSON, D. M., D. G. PARSONS, and L. SAVARD. Modal analysis for Davis Strait shrimp samples. (5 pages)
- 88/68 N1511 BOWERING, W. R. Some aspects of the witch flounder fishery on the southern Newfoundland Grand Bank (NAFO Divisions 3NO). (9 pages)
- 88/69 N1512 BOWERING, W. R., and W. B. BRODIE. A review of the status of the Greenland halibut resources in NAFO Subarea 2 and Divisions 3K and 3L. (23 pages)
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- 88/71 N1514 LEAR, W. H. Distribution of recaptures of cod tagged on Burgeo Bank during March 1986. (8 pages)
- 88/72 N1515 BISHOP, C. A., and J. W. BAIRD. Assessment data for the cod stock in NAFO Subdivision 3Ps. (19 pages)
- 88/73 N1516 LEAR, W. H. Migrations of Atlantic cod of NAFO Division 3Ps. (8 pages)
- 88/74 N1517 BERTRAND, J., and A. MAUCORPS. Contribution to the assessment of the cod stock in Subdivision 3Ps. (15 pages)
- 88/75 N1518 ANON. Report of the *Ad hoc* working group for the assessment of the cod stock in Subdivision 3Ps. (20 pages)
- 88/76 N1519 MESSTORFF, J. Survey biomass and abundance estimates for redfish (*Sebastes marinus* and *Sebastes mentella*) in Subarea 1. (2 pages)
- 88/77* N1525 LAZIER, J. R. N. Lower temperatures in the Labrador Current and in the atmosphere during the early 1970's and 1980's. (19 pages)
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- 88/83* N1535 LOENG, H. The influence of climate on biological conditions in the Barents Sea. (17 pages)
- 88/84* N1536 WOOD, G., and V. TANG. Sea-surface temperature anomalies off the northeastern U.S.A. during 1981-86. (7 pages)
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- 88/86* N1538 ARMSTRONG, R., V. TANG, and G. WOOD. Sea-surface wind stress anomalies in 1981-87 off the northeastern U.S.A. (14 pages)
- 88/87* N1539 BUGDEN, G. L. Oceanographic conditions in the deeper waters of the Gulf of St. Lawrence in relation to local and oceanic forcing. (36 pages)

- 88/88* N1540 BAIDALINOV, A. P., and V. A. RIKHTER. Correlation between trends to change of sea-surface temperature, biomass and catch-per-unit effort of Scotian Shelf silver hake (Div. 4VWX) in 1977-87. (8 pages)
- 88/89* N1541 CHUMAKOV, A. K., W. R. BOWERING, and P. ERNST. Distribution of Greenland halibut (*Reinhardtius hippoglossoides* Walbaum) in the Northwest Atlantic depending on bottom temperature. (20 pages)
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- 88/96 N1564 BERTRAND, J., A. LAUREC, A. MAUCORPS, and B. MESNIL. A new approach to Div. 3Ps cod stock assessments. (20 pages)
- 88/97 N1554 BOROVKOV, V. A., and I. I. TEVS. Temperature of bottom waters over the Newfoundland Shelf in spring-summer 1972-86. (16 pages)
- 88/98 N1555 SIGAEV, I. K., A. I. SHERSTYUKOV, and N. K. ISTOMINA. Distribution and abundance of 0-group silver hake and thermal conditions of Scotian Shelf waters in October-November 1987. (18 pages)
- 88/99 N1556 ARKHIPKIN, A. I. Types of development and sexual system functioning of cephalopods - approach to creation of general scale for maturity stages. (30 pages)
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| 88/03 | N1428 | <u>MEYBOOM, P.</u> Canadian request for scientific advice on management in 1989 of certain stocks in Subareas 0 to 4. (1 page) |
| 88/04 | N1429 | <u>GREENLAND HOME RULE AUTHORITIES.</u> Denmark (Greenland) request for scientific advice on management of certain stocks in 1988. (2 pages) |
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88/07 N1433 NAFO SECRETARIAT. Tagging activities reported for the Northwest Atlantic in 1987. (4 pages + addendum)

88/08 N1435 GROSSLEIN, M. D., and F. M. SERCHUK. United States research report for 1987. (10 pages)

88/09 (Rev.) N1436 NAFO SECRETARIAT. Provisional index and list of titles of research and summary documents for 1987. (24 pages)

88/10 N1437 NAFO. Formulation of rules of procedure common to the three main bodies of NAFO. (1 page)

88/11 N1444 NAFO SECRETARIAT. Notes on statistical activities and publications since June 1986. (2 pages)

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88/16 N1500 LEHMANN, K. Denmark (Greenland) research report for 1987. (8 pages)

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88/18 N1521 NAFO SECRETARIAT. Provisional nominal catches in the Northwest Atlantic, 1987. (59 pages)

88/19 N1522 NAFO. Summary of sampling data (1983-86), collecting data methods used, and level of scientific information available on stocks occurring in the Regulatory Area. (16 pages)

88/20 N1523 NAFO. Provisional Report of Scientific Council, Dartmouth, Nova Scotia, 8-23 June 1988. (117 pages + corrigendum)

88/21 N1527 ERNST, P., and R. EGGERS. German Democratic research report for 1987. (13 pages)

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 77 (low air and Labrador current, early 1970s+1980s)
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- SCR 88/60 (overview of environmental conditions, 1987)
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 100 (roundnose grenadier catch variations NW Atlantic)

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- SCR 88/24 (exper. trawl-acoustic survey in SA 3, 1987)
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52 (Canadian shrimp fishery in Div. 0A, 1987)
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91 (Hudson Bay runoff, ice-melt on Stn. 27 salinity)
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- SCR 88/68 (witch flounder fishery on S Grand Bank)

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- SCR 88/17 (roughhead grenadier study, NW Atlantic, 1967-83)

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- SCR 88/15 (spline approximation for trawl survey data)
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- SCR 88/10 (mean length-at-age of A. halibut, W Greenland)

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- SCR 88/12 (by-catch in shrimp fishery, W Greenland)
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