

List of Participants

Session Chairmen are in **bold**, and first authors in *italics*.

Belgium

- Köster, H. European Commission, DG XIV (6/59), rue de la Loi 200, 1049 Brussels
Phone: +32-2-295-0235 – Fax: +32-2-296-2338
- Mastracchio, E. Direction Générale XIV – Peche, Rue de la Loi 200, B-1049, Brussels
Phone: +32 2 295 5568/295 43 87 – Fax: +32 2 296 5951
- Wieland, F. D.G. XIV, Commission of European Union, J99 05/25, 200 Rue de la Loi, B-1049, Brussels
Phone: +32 2 296 3205

Canada

- Anderson, G. Marine Institute MUN, P. O. Box 4292, St. John's, Newfoundland A1C 5R3
Phone: +709-778-0646
- Anderson, K. Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709-772-5482 – Fax: +709-772-5983 or 0008 – E-mail: andersonk@dfo-mpo.gc.ca
- Azizan, H. Marine Institute MUN, P.O. Box 4920, St. John's, Newfoundland A1C 5R3
Phone: +709-778-0348 – Fax: +709-778-0659 – E-mail: hazizan@gill.ifmt.nf.ca
- Beckett, J. S.* Beckett Consulting Inc., R. R. # 2, Mountain, Ontario K0E 1S0
Phone: +613-989-2860 – Fax: +613-989-1644 – E-mail: beckettj@bpg.ca
- Bonnell, C. Fishing Technology Unit, 85 Viking Rd., St. John's, Newfoundland
Phone: +709-722-5209 – Fax: +709-778-0661 – E-mail: cbonnell@inseine.ifmt.mf.ca
- Bowering, W. R.** Northwest Atlantic Fisheries Center, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709-772-2054 – Fax: +709-772-4188 – E-mail: bowering@athena.nwafc.nf.ca
- Brodie, W. B. Sci. Branch, Dept. of Fisheries & Oceans, P.O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709-772-3288 – Fax: +709-772-4188 – E-mail: brodie@athena.nwafc.nf.ca
- Cameron, C. Fishing Technology Unit, P. O. Box 379, Pouch Cove, Newfoundland A0A 3L0
Phone: +709-335-8355
- Campbell, J. S.** Sci. Branch, Dept. of Fisheries & Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709-772-2051 – Fax: +709-772-6100
- Chen, Y. Fisheries and Marine Institute, MUN, P. O. Box 4920, St. John's, Newfoundland A1C 5R3
Phone: +709-778-0650 – Fax: +709-778-0655 – E-mail: ychen@caribou.ifmt.nf.ca
- Colbourne, E. B. Northwest Atlantic Fisheries Centre, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709-772-6106 – Fax: +709-772-3207 – E-mail: colbourne@athena.nwafc.nf.ca
- Coates, T. H. Marine Institute Student, 4 Guzzwell Drive, St. John's, Newfoundland A1A 3X1
Phone: +709-739-5593
- Couturier, C. Y. Marine Institute MUN, P.O. Box 4920, St. John's, Newfoundland A1C 5R3
Phone: +709-778-0609 – Fax: +709-778-0535 – E-mail: cyr@gill.ifmt.nf.ca
- Davis, B. Northwest Atlantic Fisheries Centre, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709-772-0560 – Fax: +709-772-4188/6100 – E-mail: davisb@athena.nwafc.nf.ca
- Duthie, A. Dept. of Fisheries and Oceans, 200 Kent St., Station 1412, Ottawa, Ontario K1A 0E6
Phone: +613-990-0157 – Fax: +613-990-9691
- Dwyer, J. Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709-772-4412 – Fax: +709-772-5983 or 0008 – E-mail: dwyerj@dfo-mpo.gc.ca
- Evans, W. Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709-772-4412 – Fax: +709-772-5983 or 0008 – E-mail: evansw@dfo-mpo.gc.ca
- Fagan, D. Marine Institute Grad Student, 25 Dunlea St., St. John's, Newfoundland A1A 3B2
Phone: +709-722-3761 – Fax: +709-758-7634 – E-mail: dfagan@northatlantic.nf.ca
- Felt, L. L. Dept. of Sociology, MUN, St. John's, Newfoundland A1C 5S7
Phone: +709-737-8862 – Fax: +709-737-2075 – E-mail: lfelt@bigfish.tek.mun.ca
- Foster, J. J. Marine Institute MUN, P. O. Box 4920, St. John's, Newfoundland A1C 5R3
Phone: +709-778-0446 – Fax: +709-778-0661 – E-mail: jfoster@gill.ifmt.nf.ca
- Gagnon, M. 969 route de l'église, Sante-Fox, Quebec #500 G1V 3V4
Phone: +418-654-1316 – Fax: +418-654-9212
- Gibbons, R. C. Marine Institute MUN, P. O. Box 4920, 155 Ridge rd., St. John's, Newfoundland A1C 5R3
Phone: +709-778-0576 – Fax: +709-778-0661

Canada (Continued)

- Gillis, D. Fish. & Aqua. Div., Fish. & Environ., P. O. Box 2000, Charlottetown, P. E. I. C1A 7NB
Phone: +902-368-5161 – Fax: +902-368-5542 – E-mail: djgillis@gov.pe.ca
- Greenland, D. L. 120 Goodyear Ave., Grand Falls Windsor, Newfoundland A0A 1J8
Phone: +709-489-6923
- He, P. Fishing Technology Unit, Marine Institute, P. O. Box 4920, St. John's, Newfoundland A1C 5R3
Phone: +709-778-0385 – Fax: +709-778-0661 – E-mail: phe@gill.ifmt.nf.ca
- Healey, M. C. Institute for Resources & Environment, University of B.C., Vancouver, B.C. V6J 2Z2
Phone: +604-822-4705 – Fax: +604-822-5357 – E-mail: healey@ocgy.ubc.ca
- Hodych, C. H. Marine Institute MUN, P. O. Box 4920, St. John's, Newfoundland A1C 5R3
Phone: +709-778-0519 – Fax: +709-778-0661 – E-mail: chodych@gill.ifmt.nf.ca
- Lane, D. E. Faculty of Admin., University of Ottawa, 136 Jean-Jacques, Privée, Ottawa Ont. K1N 6N5
Phone: +613-562-5800 Ext. 4795 – Fax: +613-562-5164 – E-mail: dlane@uottawa.ca
- Lear, W. H. Fish. Res. Br., Dept. of Fish. & Oceans, 200 Kent St., 12th Fl., Ottawa, Ont. K1A 0E6
Phone: +613-990-0287 – E-mail: learh@dfo-mpo.gc.ca
- Lewis, D. A. Marine Institute (Grad Student), 170-A Higgins Line, St. John's, Newfoundland A1B 3S6
Phone: +709-726-6107 – E-mail: dlewis@plato.mun.ucs
- Lilly, G. R. Northwest Atlantic Fisheries Centre, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709-772-0568 – Fax: +709-772-4188 – E-mail: lilly@athena.nwafc.nf.ca
- Loch, J. Sci. Maritimes Reg., Dept. of Fish. & Oceans, P. O. Box 1006, Dartmouth, N. S. B2Y 4A2
Phone: +902-426-3492 – Fax: +902-426-8484 – E-mail: john.loch@maritimes.dfo.ca
- McCorquodale, S. Dept. of Political Science, MUN, St. John's, Newfoundland A1C 5R3
Phone: +709-737-8179 – Fax: +709-737-4000 – E-mail: susanm@morgan.ucs.mun.ca
- McElderry, H. Archipelago Marine Research Ltd., 525 Head Street, Victoria, British Columbia V9A 5S1
Phone: +250-383-4535 – Fax: +250-383-0103 – E-mail: howardm@archipelago.bc.ca
- McNeil, G. L. Marine Institute (MSc Student (Aquaculture), Ridge Road, St. John's, Newfoundland A1C 5R3
Phone: +709-778-0611 – E-mail: gmcneil@inseine.ifmt.nf.ca
- Mercer, D. N. Marine Institute, 152 Torbay Rd., Bld 7b, Apt. 408, St. John's, Newfoundland A1A 2H2
Phone: +709-754-3065 – E-mail: dmercerc@ganymedes.cs.mum.ca
- Mercer, M. C. World Conserv. Union (IUCN), 380 St. Antoine St., W, Suite 3200, Montreal, Que. H2Y 3X7
Phone: +514-287-9704 – Fax: +514-287-9057 – E-mail: mercer@iucn.ca
- Milley, N. C. School of Fisheries, 27 Colville St., St. John's, Newfoundland A1E 3J9
Phone: +709-778-0396
- Morgan, M. J. Northwest Atlantic Fisheries Centre, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709-772-2261 – Fax: +709-772-4188 – E-mail: morgan@athena.nwafc.nf.ca
- Murphy, E. F. Northwest Atlantic Fisheries Centre, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709-772-5479 – Fax: +709-772-4188 – E-mail: murphye@athena.nwafc.nf.ca
- Negrijn, J. A. Marine Institute MUN, Harvesting Programs, P. O. Box 4920, St. John's, Newfoundland A1C 5R3
Phone: +709-778-0500 – Fax: +709-778-0516
- Neis, B. Dept. of Sociology, Memorial University of Newfoundland, St. John's, Newfoundland A1C 5S7
Phone: +709-737-4592 – Fax: +7
- Parsons, C. P. Marine Institute MUN (Student), P. O. Box 114, Charlies Beach, Newfoundland A0P 1W0
Phone: +709-786-3535
- Parsons, D. G. Sci. Branch, Dept. of Fisheries & Oceans, P. O. Box 5667, St. John's, Nfld A1C 5X1
Phone: +709-772-2093 – Fax: +709-772-4105 – E-mail: parsons@athena.nwafc.nf.ca
- Parsons, G. J. Marine Institute MUN, P. O. Box 4920, St. John's, Newfoundland A1C 5R3
Phone: +709-778-0307 – Fax: +709-778-04535 – E-mail: jparsons@gill.ifmt.nf.ca
- Parsons, L. S. Biol. Ser. & Directorate, Dept. of Fish. & Oceans, 200 Kent St., 15th Floor, Ottawa, Ontario K1A 0E6
Phone: +613-993-0850 – Fax: +613-990-2768
- Power, D. Sci. Branch, Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Nfld A1C 5X1
Phone: +709-772-4935 – Fax: +709-772-4188 – E-mail: power@athena.nwafc.nf.ca
- Pretty, N. J. Marine Institute MUN, 89 Larkhall St. (Apt. 403), St. John's, Newfoundland A1B 2C3
Phone: +709-579-8173
- Pynn, R. Marine Institute MUN, P. O. Box 9, New Creelsea, Trinity Bay, Newfoundland A0B 2N0
Phone: +709-586-2778

Canada (Continued)

- Rivard, D. Fish. Res. Branch, Dept. of Fisheries & Oceans, 200 Kent St., Ottawa, Ontario K1A 0E6
Phone: +613-990-0281 – Fax: +613-954-0807 – E-mail: rivardd@dfo-mpo.gc.ca
- Sandeman, E. J.** P. O. Box 18, Torbay, Newfoundland A1K 1E6
Phone: +709-437-5495 – Fax: +709-437-5495
- Shelton, P.A. Northwest Atlantic Fisheries Centre, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709-772-2341 – Fax: +709-772-4188 – E-mail: shelton@athena.nwafc.nf.ca
- Showell, M.A. Marine Fish Div., Dept. of Fish. & Oceans, P. O. Box 1006, Dartmouth, Nova Scotia B2Y 4A2
Phone: +902-426-3501 – Fax: +902-426-7750 – E-mail: m_showell@bionet.bio.dfo.ca
- Snelgrove, P.V.R. Fisheries and Marine Institute, MUN, St. John's, Newfoundland A1C 5R3
Phone: +709-778-0652 – Fax: +709-778-0655 – E-mail: psnelgro@caribou.ifmt.nf.ca
- Stansbury, D.E. Northwest Atlantic Fisheries Centre, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709-772-0559 – Fax: +709-772-4188 – E-mail: stansbury@athena.nwafc.nf.ca
- Squires, H.J. 122 University Ave., St. John's, Newfoundland A1B 1Z5
Phone: +709-895-2757
- Smith, T. 23 Alice Drive, St. John's, Newfoundland A1B 4N7
Phone: +709-786-9313
- Taggart, C. Oceanography Department, Dalhousie University, Halifax, Nova Scotia B3H 4J1
Phone: +902-494-7144 – Fax: +902-494-3877 – E-mail: chris.taggart@phys.ocean.dal.ca
- Walsh, P.J. Marine Institute MUN, P. O. Box 4920, St. John's, Newfoundland A1C 5R3
Phone: +709-778-0501 – Fax: +709-778-0661 – E-mail: pwalsh@gill.ifmt.nf.ca
- Walsh, S.J. Northwest Atlantic Fisheries Centre, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709-772-5478 – Fax: +709-772-4918 – E-mail: walsh@athena.nwafc.nf.ca
- Whelan, B. Dept. of Fisheries and Oceans, P. O. Box 5667, St. John's, Newfoundland A1C 5X1
Phone: +709-772-6423 – Fax: +709-772-5983 or 0008 – E-mail: whelanb@dfo-mpo.gc.ca
- Wiseman, E. Director General, Fisheries and Oceans Canada, 200 Kent St., 14th Floor (Station 1452),
Ottawa, Ontario K1A 0E6
Phone: +613-993-1873 – Fax: +613-993-5995

Denmark

- Carlsson, D.M. Greenl. Inst. of Natural Res., P. O. Box 2151, DK-1016, Copenhagen K.
Phone: +45 33 14 5524 – Fax: +45 33 13 4250 – E-mail: grfidmc@inet.uni-c.dk
- Lassen, H.⁺** Danish Institute for Fisheries Research, Charlottenlund Slot, DK-2920, Charlottenlund
Phone: +45 33 96 3352 – Fax: +45 33 96 3333 – E-mail: hl@dfu.min.dk

Faroe Islands

- Nicolajsen, Å. Fiskorannsóknarstovan, Noatun, Postboks 3051, FR-1100, Torshavn
Phone: +298 1 50 92 – Fax: +298 1 8264 – E-mail: arninic@frs.fo

Germany

- Cornus, H. P. Institut für Seefischerei, Palmaille 9, D-22767, Hamburg, Republic of Germany
Phone: +49 40 38905194 – Fax: +49 40 38905263 – E-mail: cornus.ish@bfa-fisch.de
- Fischer, J. Institut für Seefischerei, Palmaille 9, D-22767 Hamburg
Phone: +49 40 38905 177 – Fax: +49 40 38905 263 – E-mail: johfischer@aol.com
- Stein, A. Wildenbruchstr. 6, 22587 Hamburg, Germany
Phone: +49 40 870 1510
- Stein, M.* Institut für Seefischerei, Palmaille 9, D-22767 Hamburg
Phone: +49 40 389 05174 – Fax: +49 40 38905 263 – E-mail: stein.ish@bfa-fisch.de

Greenland

- Jensen, D. Greenland Fisheries Licence Authority, P. O. Box 501, DK-3900 Nuuk
Phone: +299 2 30 00 – Fax: +299 2 32 35
- Petersen, P. A. Greenland Fisheries Licence Authority, P. O. Box 501, DK-3900 Nuuk
Phone: +299 2 30 00 – Fax: +299 2 32 35

⁺ Convenor

Greenland (Continued)

Siegstad, H. Greenland Institute of Natural Resources, P. O. Box 570, DK-3900 Nuuk
Phone: +299 2 10 95 – Fax: +299 2 59 57 – E-mail: helle@natur.centadm.gh.gl

Italy

Caddy, J. F. FIDI, Fisheries Department, FAO Dept. of Fish., Via Delle Terme di Caracalla, 00100 Rome
Phone: +39 6 5705 6097 – Fax: +39 6 5705-3020 – E-mail: john.caddy@fao.org

Iceland

Skúladóttir, U. Marine Research Institute, Skulagata 4, P. O. Box 1390, 121-Reykjavik
Phone: +354 552 0240 – Fax: +354 562 3790 – E-mail: unnur@hafro.is
Valdimarsen, G. Director General, Hafsofnastofnun Fiskidnarins, Skulagata 4, IS 101 Reykjavik
Phone: +354 562 0240 – Fax: +354 562 0740 – E-mail: grimur@rfisk.is or grimurv@itn.is

Japan

Hastings, J.D. Consultant, JDSTA, 1425 Western Ave., Suite 304, Seattle, Washington 09101
Phone: +206-292-9792 – Fax: +206-467-1043
Ikeda, H. Japan Deep Sea Trawlers Association, 601 Ogawamachi Yasuda Bldg., 3–6 Kanda Ogawa-cho, Chiyoda-Ku, Tokyo 101
Phone: +03 3291 8508 – Fax: +03 3233 3267 – E-mail: nittoro@mx3.meshnet.or.jp
Kashio, Y. Japan Fish. Assoc., Suite 1408, Duke Tower, 5251 Duke St., Halifax, Nova Scotia B3J 1P3
Phone: +902-423-7975 – Fax: +902-425-0537
Kawahara, S. National Research Institute of Far Sea Fisheries, 5-7-1, Orido, Shimizu-shi, Sizuoka, 424
Phone: +81 543 36 6051 – Fax: +81 543 35 9642 – E-mail: kawahara@enyo.affrc.go.jp

Norway

Aschan, M.A. Norwegian Institute of Fisheries and Aquaculture, N-9005 Tromsø
Phone: +47 77 62 9000 – Fax: +47 77 62 9100 – E-mail: michaelaa@fiskforsk.norut.no
Godø, O.R. Institute of Marine Research, P. O. Box 1870, N-5024 Bergen
Phone: +47 55 23 86 75 – Fax: +47 55 23 86 87 – E-mail: olavrune@imr.no
Jakobsesn, T. Institute of Marine Research, P. O. Box 1870, N-5024 Bergen
Phone: +47 55 23 86 75 – Fax: +47 55 23 86 87 – E-mail: tore.jakobsen@imr.no
Ulltang, Ø. Dept. of Fish. and Mar. Biology, University of Bergen, Bergen High Technology Center, N-5020 Bergen
Phone: +47 55 58 44 50 – Fax: +47 55 58 44 57 – E-mail: oyvind.ulltang@ifm.uib.no

Portugal

Godinho, M. L. M. Instituto Portugues de Investigacao Maritima (IPIMAR), Alges-Praia, 1400 Lisbon
Phone: +3511-301-7361/0814 – Fax: +3511-301-5948

Republic of Korea

Kang, J. S. International Organization Office, Ministry of Marine Affairs & Fisheries (MOMAF), 826-14, Yoksam-Dong, Jinsol Bldg., Kangnam-Ku, Seoul, 135-080
Phone: +82 2 554 2123 – Fax: +82 2 554 2023

Russian Federation

Rikhter, V. A. AtlantNIRO, 5 Dmitry Donskoy Street, Kaliningrad, 23600
Phone: +70 112 22 5547 – Fax: +70 112 21 9997 – E-mail: scomber@online.ru
Shibanov, V. N. PINRO, 6 Knipovich Street, Murmansk, 183763
Phone: +47 789 10423 – Fax: +47 789 10518 – E-mail: inter@pinro.murmansk.ru

Spain

- De Cardenas, E. Institute Espanol de Oceanografia, Centro Oceanografico de Cantabria, Aptdo 240, 39080 Santander
Phone: +34 42 275033 – Fax: +34 42 275072 – E-mail: cendrero@ccaix3.unican.es
- Junquera, S. Instituto Español de Oceanografía, Cabo Estay – Canido, Aptdo. 1552, E-36280 Vigo (Pontevedra), Spain
Phone: +34 86 492111 – Fax: +34 86 49 2351 – E-mail: susana.junquera@vi.ieo.es
- Motos, L. AZTI, Food & Fish., Technological Inst., Satrustegi ib. 8, 20008 Donostia – San Sebastian Basque Country
Phone: +34 43 214124 – Fax: +34 43 212162 – E-mail: lorenzo@rp.azti.es
- Trastoy, A.H. SubDirector General De Pesca E Industrias Pesqueras, C/SAR, No. 75, 15771 Santiago De Compostela
Phone: +34 81 54 6349/47 – Fax: +34 81 54 6288/90 – E-mail: sx.pesca@xunta.es
- Vazquez, A. Instituto Investigaciones Marinas, Muelle de Bouzas, Vigo
Phone: +34 86 23 1930 – Fax: +34 86 29 2762 – E-mail: avazquez@iim.csic.es
- Vázquez Seijas, V. M. Secretario General, Conselleria de Pesca, Marisqueo e Acuicultura
Phone: +34 81 54 6349/47 – Fax: +34 81 54 6288/90 – E-mail: sx.pesca@xunta.es

United Kingdom

- Muir, J. F. Institute of Aquaculture, University of Stirling, Stirling
Phone: +44 1786 467 889 – Fax: +44 1786 451 1461 – E-mail: j.f.muir@stir.ac.uk

United States of America

- Anderson, E. D. National Marine Fisheries Service, 166 Water St., Woods Hole, MA 02543-1026
Phone: +508-495-2317 – Fax: +508-495-2393 – E-mail: emory.anderson@noaa.gov
- DeAlteris, J. T. Univer. of Rhode Island, Dept. of Fish., Animal & Veterinary Science, Kingston, RI 02881
Phone: 1-401-874-5333 – Fax: 1-401-789-8930 – E-mail: joede@uriacc.uri.edu
- Griffith, P. C. Gen. Manager, North American CLS, Inc., 9200 Basil Ct, Suite 306, Largo, Maryland 20774
Phone: +301-341-1814 – Fax: +308-341-2130 – E-mail: griffith@nacls.com
– <http://www.cls.cnes.fr:2000>
- Grogan, C. S. Environ. Inst., Blaisdell House, Univ. of Massachusetts at Amherst, Amherst, MA 01003
Phone: +413-545-2842 – E-mail: cgrogan@forwild.umass.edu
- Goudey, C. A. MIT Sea Grant Colega Program, MIT Bldg E38-370, 292 Main St., Cambridge, MA 02129
Phone: +617-253-7079 – Fax: +617-252-1615 – E-mail: cgoudey@mit.edu
- Hennessey, T. M. Dept. of Marine Affairs, Washburn Mall, University of Rhode Island, Kingston, RI 02881
Phone: +401-874-4052 – Fax: +401-874-4072 – E-mail: hennessey@uriacc.uri.edu
- Jones, C. Old Dominion University, 1034 W 45th St., Norfolk, Virginia 23529-0456
Phone: +757-683-4497 – E-mail: jones@estuary.amri.odu.edu
- Kinani, A. Univ. Rhode Island, Dept. of Fish., Animal and Veterinary Science, Kingston, RI 02881
Phone: +401-874-2012 – E-mail: akin8151@uriacc.uri.edu
or akinani@whsun1.wh.who.edu or kinani@cs.uri.edu
- Lazar, N. Atl. States Marine Fisheries Commission, c/o Rhode Island Division of Fish and Wildlife, 1231 Succotash Road, Wakefield, RI 02879
Phone: +401-783-2304 – E-mail: AH411@osfn.rhinet.gov or nlazar@whsun1.wh.who.edu
- Mayo, R. K. US Dept. of Commerce, NOAA/NMFS, 166 Water St., Woods Hole, MA 02543
Phone: +508-495-2310 – Fax: +508-495-2393 – E-mail: ralph.mayo@noaa.gov
- Pierce, D. E. Marine Fisheries Policy & Regulations Specialist/Senior Mar. Fish. Biologist
Massachusetts Div. of Marine Fisheries, 100 Cambridge St., Boston, MA 02202
Phone: +617-727-3193 ext. 366 – Fax: +617-727-7988 – E-mail: dpierce@state.ma.us
- Rosenberg, A. A. NW Region (Gloucester), National Mar. Fish. Ser., 1 Blackburn Dr., Gloucester, MA 01930
Phone: 1-508-281-9210 – Fax: +508-281-9371 – E-mail: andy.rosenberg@noaa.gov
- Spencer, P. D. NMFS, Southwest Fisheries Science Center, Tiburon Laboratory, 3150 Paradise Dr., Tiburon, CA 94920
Phone: +415-435-3149 ext. 246 – Fax: +415-435-3675 – E-mail: pauls@melanops.tib.nmfs.gov
- Sutinen, J. G. Dept. Environmental & Nat'l Res Economics, Univ. Rhode Island, Kingston, RI 02881
Phone: +401-874-4586 – E-mail: jsutinen@uriacc.uri.edu

United States of America (Continued)*West, M. B.*

Deputy Assist. Sec. for Oceans Science Technology, Bureau of Oceans and International
Environmental & Scientific Affairs, Rm 7831, U.S. Dept. of State, Washington, DC 20520
Phone: +202-647-2396 – Fax: +202-647-0217

NAFO Secretariat

T. Amaratunga, Assistant Executive Secretary

D. C. A. Auby, Clerk-Secretary

F. D. Keating, Administrative Assistant

S. M. Goodick, Accounting Officer

NOTICE

SYMPOSIUM

Pandalid Shrimp Fisheries – Science and Management at the Millenium

FIFTIETH ICNAF/NAFO ANNIVERSARY

Hosted by the Scientific Council of the
Northwest Atlantic Fisheries Organization (NAFO)

and

Co-sponsored by NAFO, the International Council for the Exploration of the Sea (ICES)
and the North Pacific Marine Science Organization (PICES)

8–10 September, 1999

Venue to be announced

The Scientific Council of NAFO is pleased to announce this Symposium to be held in conjunction with the NAFO 21st Annual Meeting, and during the 50th Anniversary of ICNAF/NAFO. The Symposium will be co-convened by P. Koeller (NAFO), S. Tveite (ICES), and J. Boutillier (PICES), and organized by the NAFO Secretariat.

Pandalid shrimp are an important global resource, with significant fisheries in the North Atlantic, and the North Pacific. Populations have shown large fluctuations in abundance due to environmental and ecological influences, fishing pressure, or a combination of these factors. The purpose of the Symposium is to review, discuss and synthesize all aspects of Pandalid shrimp biology, ecology and fisheries science relevant to the rational management of these resources, including:

- **Environmental and Ecological influences** – Can useful predictive relationships between environmental factors and stock abundance be developed? What is the evidence for predator forcing of shrimp stock dynamics? How can this information be quantified and applied in multispecies management models?
- **Stock Assessments and Associated Biological Research** – How do shrimp stocks respond to exploitation? What are the constraints to analytical stock assessments and how can they be overcome? What biological indicators are useful in detecting changes in stock status?
- **Management Strategies** – What biological reference points and conservation limits should be used in stock management? How can the precautionary approach be applied to shrimp fisheries?
- **Harvesting** – How have technological advances influenced the development of shrimp fisheries? What are the latest developments in harvesting and processing and their impacts?

A second announcement and "Call for Papers" will be issued shortly for contributed papers and posters. Papers will be selected on the basis of their relevance to the topics and scientific suitability. It is anticipated that the proceedings of this Symposium will be published in a special issue of the *Journal of Northwest Atlantic Fishery Science*.

If you are interested in contributing papers or participating in the meetings you may obtain further information from:

P. Koeller

Department of Fisheries and Oceans
Halifax Fisheries Research Laboratory
P.O. Box 550
Halifax, Nova Scotia
Canada B3J 27S
E-mail: koellerp@mar.dfo-mpo.gc.ca
Tel: +902-426-5379
Fax: +902-426-1862

S. Tveite

Institute of Marine Research
Flødevigen Marine Research Station
N-4817 HIS, Norway
E-Mail: Stein.Tveite@imr.no
Tel: +47 37 05 90 00
Fax: +47 37 05 90 01

J. Boutillier

Department of Fisheries and Oceans
Pacific Biological Station
Hammond Bay Road
Nanaimo, British Columbia
Canada V9R 5K6
E-mail: boutillierj@dfo-mpo.gc.ca
Tel: +250-756-7048
Fax: +250-756-7053

Tissa Amaratunga, Assistant Executive Secretary

Northwest Atlantic Fisheries Organization
P. O. Box 638
Dartmouth, Nova Scotia, Canada B2Y 3Y9
E-mail: nafo@fox.nstn.ca
Tel: +902-468-5590
Fax: +902-468-5538

Scientific Publications of the Northwest Atlantic Fisheries Organization

Journal of Northwest Atlantic Fishery Science

The Journal provides an international forum for the primary publication of original research papers on fisheries science in the Northwest Atlantic, with emphasis on environmental, biological, ecological and fishery aspects of the living marine resources and ecosystems.

- Vol. 1 – Miscellaneous papers (10), December 1980, 112 pp.
- Vol. 2 – Miscellaneous papers (10), October 1981, 76 pp.
- Vol. 3, No. 1, 2 – Miscellaneous papers (17), May and December 1982, 180 pp.
- Vol. 4 – Special issue "Guide to the Early Stages of Marine Fishes Occurring in the Western North Atlantic Ocean, Cape Hatteras to the Southern Scotian Shelf", July 1983, 424 pp.
- Vol. 5, No. 1, 2 – Miscellaneous papers, (26), January and November 1984, 224 pp.
- Vol. 6, No. 1, 2 – Miscellaneous papers, (17), June and December 1985, 179 pp.
- Vol. 7, No. 1, 2 – Miscellaneous papers, (18), December 1986 and December 1987, 177 pp.
- Vol. 8 – Miscellaneous papers, (7), December 1988, 88 pp.
- Vol. 9 – Miscellaneous papers, (13), September and December 1989, 159 pp.
- Vol. 10 – Special issue "The Delimitation of Fishing Areas in the Northwest Atlantic", December 1990, 57 pp.
- Vol. 11 – Miscellaneous papers, (7), February 1991, 80 pp.
- Vol. 12 – Miscellaneous papers, (7), January 1992, 84 pp.
- Vol. 13 – Miscellaneous papers, (7), December 1992, 114 pp.
- Vol. 14 – Symposium papers (12), on "Changes in Biomass, Production and Species Composition of the Fish Populations in the Northwest Atlantic over the Last 30 Years, and Their Possible Causes", December 1992, 160 pp.
- Vol. 15 – Special issue "Decapod Crustacean Larvae from Ungava Bay", December 1993, 170 pp.
- Vol. 16 – Miscellaneous papers (7), July 1994, 100 pp.
- Vol. 17 – Miscellaneous papers (6), October 1994, 78 pp.
- Vol. 18 – Miscellaneous papers (6) (1 Note), April 1996, 115 pp.
- Vol. 19 – Symposium papers (11), on "Gear Selectivity/Technical Interactions in Mixed Species Fisheries", September 1996, 145 pp.
- Vol. 20 – Special issue "North Atlantic Fishery Management Systems: A Comparison of Management Methods and Resource Trends", September 1996, 143 pp.
- Vol. 21 – Miscellaneous papers (5), April 1997, 83 pp.
- Vol. 22 – Symposium papers (25) (1 Note), on "The Role of Marine Mammals in the Ecosystem", December 1997, 387 pp.

NAFO Scientific Council Studies

This secondary publication includes papers of topical interest and importance to the current and future activities of the Scientific Council.

- No. 1 – Miscellaneous papers (11), March 1981, 101 pp.
- No. 2 – Manual on Groundfish Surveys, December 1981, 56 pp.
- No. 3 – Miscellaneous papers (8), April 1982, 82 pp.
- No. 4 – Special Session papers (12), on Remote-Sensing Applications to Fishery Science, September 1982, 98 pp.
- No. 5 – Symposium papers (12), on Environmental Conditions in 1970–79, December 1982, 114 pages
- No. 6 – Miscellaneous papers (8), December 1983, 104 pp.
- No. 7 – Miscellaneous papers (9), August 1984, 98 pp.
- No. 8 – Miscellaneous papers (12), April 1985, 96 pp.
- No. 9 – Special Session papers on Squids (17), November 1985, 180 pp.
- No. 10 – Miscellaneous papers (9), August 1986, 112 pp.
- No. 11 – Miscellaneous papers (11), March 1987, 127 pp.
- No. 12 – Miscellaneous papers (8), March 1988, 90 pp.
- No. 13 – Miscellaneous papers (5), November 1989, 82 pages

NAFO Scientific Council Studies (Continued)

- No. 14 – Miscellaneous papers (6), May 1990, 74 pp.
- No. 15 – Miscellaneous papers (7), May 1991, 68 pp.
- No. 16 – Special Session papers (22), on Management Under Uncertainties 5–7 September 1990, November 1991, 190 pp.
- No. 17 – Workbook on Introduction to Sequential Population Analysis, February 1993, 98 pp.
- No. 18 – Symposium papers (18), on Changes in Abundance and Biology of Cod Stocks and Their Possible Causes, July 1993, 110 pp.
- No. 19 – Miscellaneous papers (8), October 1993, 98 pp.
- No. 20 – Miscellaneous papers (7), February 1994, 114 pp.
- No. 21 – Collections of Papers Related to Northern Cod and Seals in NAFO Divisions 2J and 3KL (10), December 1994, 165 pp.
- No. 22 – Miscellaneous papers (6), May 1995, 95 pp.
- No. 23 – Miscellaneous papers (5), September 1995, 95 pp.
- No. 24 – Symposium papers (12), on Impact of Anomalous Oceanographic Conditions at the Beginning of the 1990s in the Northwest Atlantic on the Distribution and Behaviour of Marine Life, September 1994, 155 pp.
- No. 25 – Collection of Papers – Flemish Cap Selected Environmental and Other Papers (5), July 1996, 91 pp.
- No. 26 – Selected Papers on Harp and Hooded Seals (11, 2 Notes), December 1996, 129 pp.
- No. 27 – Miscellaneous papers (5, 1 Note), December 1996, 81 pp.
- No. 28 – Special Session papers (6) on Assessment of Groundfish Stocks Based on Bottom Trawl Survey Results, December 1996, 105 pp.
- No. 29 – Selected Studies Related to Assessment of Cod in NAFO Divisions 2J+3KL (11), May 1997, 125 pp.
- No. 30 – Miscellaneous papers (9), December 1997, 117 pp.

NAFO Scientific Council Reports

This publication contains reports of Scientific Council Meetings held throughout the year.

- 1980 – Reports of seven meetings in 1979 and 1980, Published December 1980, 190 pp.
- 1981 – Reports of four meetings in 1981, Published December 1981, 148 pp.
- 1982 – Reports of two meetings in 1982, Published December 1982, 110 pp.
- 1983 – Reports of three meetings in 1983, Published December 1983, 152 pp.
- 1984 – Reports of three meetings in 1984, Published December 1984, 126 pp.
- 1985 – Reports of three meetings in 1985, Published December 1985, 146 pp.
- 1986 – Reports of three meetings in 1986, Published December 1986, 156 pp.
- 1987 – Reports of three meetings in 1987, Published December 1987, 138 pp.
- 1988 – Reports of two meetings in 1988, Published December 1988, 150 pp.
- 1989 – Reports of two meetings in 1989, Published December 1989, 180 pp.
- 1990 – Reports of two meetings in 1990, Published December 1990, 188 pp.
- 1991 – Reports of two meetings in 1991, Published December 1991, 164 pp.
- 1992 – Reports of four meetings in 1992, Published December 1992, 212 pp.
- 1993 – Reports of three meetings in 1993, Published January 1994, 234 pp.
- 1994 – Reports of four meetings in 1994, Published January 1995, 234 pp.
- 1995 – Reports of three meetings in 1995, Published January 1996, 244 pp.
- 1996 – Reports of three meetings in 1996, Published January 1997, 226 pp.
- 1997 – Reports of three meetings in 1997, Published January 1998, 274 pp.

NAFO Statistical Bulletin

This publication replaced ICNAF Statistical Bulletin which terminated with Vol. 28 (revised). The volume numbering continues the series.

- Vol. 29 – Fishery statistics for 1979, Originally published July 1981; revised edition published November 1984, 290 pp.
- Vol. 30 – Fishery statistics for 1980, Originally published August 1982; revised edition published October 1984, 280 pp.
- Vol. 31 – Fishery statistics for 1981, Originally published September 1983; revised edition published March 1985, 276 pp.

NAFO Statistical Bulletin (Continued)

- Vol. 32 – Fishery statistics for 1982, Published December 1984, 284 pp.
- Vol. 33 – Fishery statistics for 1983, Published December 1985, 280 pp.
- Vol. 34 – Fishery statistics for 1984, Published December 1986, 304 pp.
- Vol. 35 – Fishery statistics for 1985, Published December 1987, 322 pp.
- Vol. 36 – Fishery statistics for 1986, Published October 1989, 304 pp.
- Vol. 37 – Fishery statistics for 1987, Published April 1990, 295 pp.
- Vol. 38 – Fishery statistics for 1988, Published February 1991, 307 pp.
- Vol. 39 – Fishery statistics for 1989, Published February 1993, 300 pp.
- Vol. 40 – Fishery statistics for 1990, Published February 1994, 309 pp.
- Vol. 41 – Fishery statistics for 1991, Published February 1995, 318 pp.
- Statistical Bulletin Supplementary Issue, 1960–90, (statistics) Published April 1995, 156 pp.
- Vol. 42 – Fishery statistics for 1992, Published October 1995, 310 pp.
- Vol. 43 – Fishery statistics for 1993, Published December 1997, 329 pp.

NAFO List of Fishing Vessels

This triennial publication replaced ICNAF List of Fishing Vessels which terminated with the 1977 list in April 1980. The NAFO publication has also been discontinued.

- 1980 – List for 1980, Published March 1983, 48 pp.
- 1983 – List for 1983, Published April 1985, 43 pp.
- 1986 – List for 1986, Published July 1988, 48 pp.
- 1989 – List for 1989, Published January 1992, 44 pp.

Inventory of Sampling Data

This publication replaced ICNAF Inventory of Sampling Data 1967–1978 which was completed in 1986.

- Inventory of Sampling Data 1979–1984, Published April 1989, 250 pp.
- Inventory of Sampling Data 1985–1989, Published March 1993, 265 pp.

NAFO Index of Meeting Documents

This publication contains lists of all documents along with a subject and author index of Scientific Council documents issued during a 5-year period.

- 1979–84 – Index of Meeting Documents, Published March 1985, 146 pp.
- 1985–89 – Index of Meeting Documents, Published December 1990, 116 pp.
- 1990–94 – Index of Meeting Documents, Published November 1995, 139 pp.

