

FEB06

CURRICULUM VITAE

Name: **NORMAN W. BARTOO, PhD**

Organization: National Oceanic & Atmospheric Administration
National Marine Fisheries Service
Southwest Fisheries Science Center
8604 La Jolla Shores Drive
La Jolla, CA 92037-1508
(858) 546-7073

Present Position: Deputy Science Director, Southwest Fisheries Science Center;
Acting Director, Operations, Management & Information Division

Discipline: Fishery Research and Administration, Specialty: Research Management & Planning, Fisheries Resource Assessment & Management; Population Dynamics

Education: B.S. in Fisheries Management and Administration,
at the University of Washington, 1970,
M.S. at the University of Washington, 1972,
Major: Applied Statistics in Fisheries
Major Professor: Dr. R. R. Whitney
Ph.D. at the University of Washington, 1977,
Major: Fisheries Population Dynamics
Major Professor: Dr. D. G. Chapman

Dissertation Title: Population parameter estimates and energy budgets for peamouth, northern squawfish, and yellow perch in Lake Washington, 144 pp.

Professional Positions Held: 2004- present: Deputy Science Director, Southwest Region
1997-present: Member, Editorial Board, Ciencias Marinas (ISSN 0185-3880)
2002-2005: Scientific Editor, NOAA Fishery Bulletin & NOAA Professional Papers
2003-2004: Acting Director Fisheries Resources Division, SWFSC
1999-2004: Planning Officer, SWFSC
1998-1999: Acting Director, Pelagic Fisheries Resources Div. SWFSC
1984-1998: Supervisory Fisheries Research Biologist, SWFSC
1977-1983: Fishery Research Biologist, SWFSC
1972-1977: Pre-Doctoral Research Associate, Washington Cooperative Fishery Unit, University of Washington, Seattle
1970-1972: Research Assistant, Washington Cooperative Fishery Unit, University of Washington, Seattle
1969-1970: Fishery Aide, Fisheries Research Institute, University of Washington, Seattle

Research Interest: Research management. Development & integration of research; application of population dynamics techniques.

Honors/Awards: Society of Sigma Xi (research honorary)
Numerous NOAA Performance Awards/QSIs, 1984-2003

Numerous NOAA Special Act Awards, 1979-2003
American Institute Fisheries Research Biologists, So. Calif. District,
Vice Director, 1981-1983; Director, 1984-1985
Best paper of the year nomination, Fish. Bull. 1987 (Honorable mention).
Dept. of Commerce Individual Bronze Medal For Superior Federal Performance
in career contributions in "Organizing and Directing Albacore Research During
the Drift Gillnet Crises", 1992.
Dept. of Commerce Group Bronze Medal for creating a proactive, inclusive,
stakeholder focused process resulting in a Pacific Coast Highly Migratory
Species fishery management plan. 2003

Service on Scientific Committees and Workshops (Partial List):

American Society of Limnology and Oceanography,
37th Annual Meeting, Chairman, Fish Section
International Commission for the Conservation of
Atlantic Tunas, Scientific Committee on Research
and Statistics:
1977: USA Delegate and Rapporteur for Albacore
Stock Assessment
1978: USA Delegate and Rapporteur for Albacore
Stock Assessment
1979-1981: USA Delegate and Rapporteur for
Albacore Stock Assessment
1982: USA Delegate and Rapporteur for Albacore and
Temperate Multi-species Interactions
1982: Chairman of Working Group to Reorganize the
Scientific Committee on Research and Statistics
1983: USA Delegate and Rapporteur for Skipjack
Tuna Stock Assessment
1983: 1984: Chairman, Standing Committee on
Statistics, ICCAT Scientific Committee on
Research and Statistics
1984: USA Delegate and Rapporteur for Skipjack
Tuna Stock Assessment
1985: USA Delegate and Rapporteur for Albacore
Stock Assessment
Swordfish Workshop, Miami: Invited Participant, 1977.
Third North Pacific Albacore Workshop,
Honolulu: Rapporteur for Albacore Stock
Assessment, 1978.
American Institute of Fishery Research Biologists,
Stock Abundance Estimation Workshop,
Chairman, 1978
Billfish Stock Assessment Workshop, Honolulu:
Rapporteur for Striped Marlin Stock Assessment, 1978
American Institute of Fishery Research Biologists,
Workshop on Communication Techniques,
Committee Member, 1979
Workshop on the Assessment of Selected Tuna and
Billfish Stocks in the Pacific and Indian Oceans,
Shimizu: Rapporteur for Pacific Yellowfin Stock
Assessment, 1979
Fourth North Pacific Albacore Workshop, Shimizu:
Rapporteur for Albacore Stock Assessment, 1979
Fifth North Pacific Albacore Workshop, La Jolla:

Chairman and Rapporteur for Albacore Stock Assessment, 1980

Sixth North Pacific Albacore Workshop, Shimizu: Rapporteur for Albacore Stock Assessment, 1981

Seventh North Pacific Albacore Workshop, La Jolla: Chairman and Rapporteur, 1982

Eighth North Pacific Albacore Workshop, Shimizu: Rapporteur, 1983

Ninth North Pacific Albacore Workshop, La Jolla: Chairman and Rapporteur, 1985

Tenth North Pacific Albacore Workshop, Shimizu: Rapporteur, 1987

Eleventh North Pacific Albacore Workshop, La Jolla: Chairman and Rapporteur, 1989

Twelfth North Pacific Albacore Workshop, Shimizu: Co-Chair & Rapporteur, 1991

Lake Arrowhead Tuna Conference (28th - 43rd), Participant and Moderator, 1977-1993

39th Lake Arrowhead Tuna Conference, Chairman, 1988

FAO Expert Consultation on Pacific Tuna Fisheries Interactions, preparatory meeting, 1989

FAO Expert Consultation on Pacific Tuna Fisheries Interactions, Chair of North Pacific Albacore Panel, 1991

Thirteenth North Pacific Albacore Workshop, La Jolla: Chairman, 1993.

Pacific International Swordfish Symposium Ensenada: Co-Chair & Steering Committee member, 1994

Fourteenth North Pacific Albacore Workshop, Taipei: Co-Chair, 1995.

Interim Scientific Committee for Tuna and Tuna-Like Species in the North Pacific Ocean, U.S. Delegation member: 1996, 1999

2nd Pacific International Swordfish Symposium Honolulu: Panel Chair & Steering Committee member, 1997

Fifteenth North Pacific Albacore Workshop, Nanaimo: Co-Chair, 1997.

American Fishermen's Research Foundation: NMFS Scientific Advisor to the Board of Directors, 1985-2000.

Pacific Fishery Management Council Highly Migratory Species Fishery Plan Development team member, 1999-2004.

University of Southern California Sea Grant Program: NMFS Program Advisor, 2001-present.

NMFS Facilities Task Force, 2001-2002.

National Task Force for Improving Fish Stock Assessments. 2001

NMFS Publication Committee.

Pacific Fishery Management Council Highly Migratory Species Fishery Management Team member, 2004

NMFS Demonstration Pay Management Board, 2004-

Publications:

Herrick, S., K. Hill, D. Squires, N. Bartoo. Submitted. Managing fleet harvesting capacity in the Pacific Coast coastal pelagics species finfish fishery. Fishery Bulletin, under review.

Susilowati, I., O. Ishak, Y. Jeon, K. Kuperan, J. Kirkley, D. Squires, N. Vestergaard, and N. Bartoo. 2005. A Productive Efficiency and Sustainable Resource Development in Indonesia: The Mini-Purse Seine Fishery of the Java Sea. Environment and Development Economics.

Pacific Fishery Management Council. 2004. Fishery Management Plan and Environmental Impact Statement for U.S. West Coast Fisheries for Highly Migratory Species. Pacific Fishery Management Council, 578p, plus appendices. (N. Bartoo acknowledged as Principal Preparer).

NMFS. 2001. Marine Stock Assessment Improvement Plan. Report of the National Marine Fisheries Service national Task Force for Improving Fish Stock Assessments. U.S. Dep. Commerce, NOAA Tech. Memo. NMFS-F/SPO-56, 69 p., 25 appendices. (N. Bartoo acknowledged as contributor and Task Force member)

NMFS. 2001. NMFS strategic plan for fisheries research. U.S. Dep. Commerce, NOAA, Natl. Mar. Fish. Serv., Silver Spring, MD, 88 pp. (N.W. Bartoo as contributor)

Anon. 1999. Our Living Oceans. U.S. Dep. Comm., NOAA Tech. Memo. NMFS-F/SPO-41. 301pp. (N.W. Bartoo acknowledged as contributor)

Bartoo, N. and M. Hinton. 1999. Fishery statistics and stock assessment, p 197-200, In: Proceeding of the Second International Pacific Swordfish Symposium, June 1999. U.S. Dep. Commerce, NOAA Tech. Memo. NMFS-SWFSC-263.

Barrett, I., O. Sosa-Nishizaki and N. Bartoo (eds). 1998. Biology and fisheries for swordfish, *Xiphias gladius*: papers from the international symposium on Pacific swordfish, Ensenada, Mexico. 11-14 December 1994. U.S. Dep. Comm., NOAA Tech. Rep. NMFS 142. 276 pp.

Kleiber, P. and N. Bartoo. 1998. Standardizing swordfish, *Xiphias gladius*, longline catch per unit effort using General Additive Models. In: Biology and fisheries for swordfish, *Xiphias gladius*: Papers from the international symposium on Pacific swordfish, Ensenada, Mexico. 11-14 December 1994. U.S. Dep. Comm., NOAA Tech. Rep. NMFS 142:181-193.

Holts, D., A. Julian, O. Sosa-Nishizaki and N. Bartoo. 1998. Pelagic shark fisheries along the west coast of the United States and Baja California, Mexico. Fish. Res. 39:115-125.

Ramon, D. and N. Bartoo. 1997. The effects of formalin and freezing on ovaries of albacore. Fish. Bull. 95:869-872.

Anon. 1995. Our Living Oceans. U.S. Dep. Comm., NOAA Tech. Memo. NMFS-F/SPO-19. 160 pp. (N.W. Bartoo acknowledged as contributor)

Bartoo, N. and T. J. Foreman. 1994. A synopsis of the biology and fisheries for north Pacific albacore tuna. In: Interactions of Pacific tuna fisheries. Proceedings of the first FAO Expert Consultation on Interactions of Pacific Tuna Fisheries. 3-11 December 1991. Noumea, New Caledonia. Volume 2: summary report and papers on interaction. R. Shomura, J. Majkowski, S. Langi (eds). FAO Fisheries Tech. Pap. No. 336(2):173-187.

Bartoo, N., D. Holts and C. Brown. 1994. Interactions between high seas drift net fisheries and the North American troll fishery for albacore. In: Interactions of Pacific tuna fisheries. Proceedings of the first FAO Expert Consultation on Interactions of Pacific Tuna Fisheries. 3-11 December 1991. Noumea, New Caledonia. Volume 1: summary report and papers on interaction. R. Shomura, J. Majkowski, S. Langi (eds). FAO Fisheries Tech. Pap. No. 336(1):214-227.

Bartoo, N., D. Holts and C. Brown. 1993. Evidence of interactions between high seas drift net fisheries and the North American troll fishery for albacore. In: Symposium on Biol. Dist. and Stock Assess. of Species Caught in the High Seas Driftnet Fisheries in the North Pacific Ocean, J. Ito, W. Shaw, R.L. Burgner (eds). INPFC Bulletin No. 53(III): 367-380.

Bartoo, N. and D.B. Holts. 1993. Estimated drift gillnet selectivity for albacore *Thunnus alalunga*. Fish. Bull. 92(2):371-378.

Anon. 1993. Our Living Oceans. U.S. Dep. Comm., NOAA Tech Memo. NMFS-F/SPO-15. 156 pp. (N.W. Bartoo acknowledged as contributor)

Bartoo, N. and P. Kleiber. 1993. An examination of catch per effort for U.S. troll vessels using General Additive Models (GAM's). Presented at 13th North Pacific Albacore Workshop, La Jolla.

Holts, D.B. and N.W. Bartoo. 1992. Eastern Pacific striped marlin. In: Tuna and billfish summaries of major stocks. N. Bartoo (ed.) SWFC Admin. Rep., La Jolla, LJ-87-26, Revised 1991.

Anon. 1992. Our Living Oceans. U.S. Dep. Comm., NOAA Tech Memo. NMFS-F/SPO-2. 148 pp. (N.W. Bartoo acknowledged as contributor)

Bartoo, N. and J. Wetherall. 1991. Assessing impacts of north Pacific high-seas driftnet fisheries on albacore, other tunas, and billfishes: progress and problems. Report of the North Pacific Driftnet Scientific Review Meeting, Sidney, British Columbia, Canada, June 11-14, 1991. 28 pp.

Bartoo, Norman W. and Atilio L. Coan, Jr. 1989. An assessment of the Pacific swordfish resource. In: Planning the future of billfishes: Research and management in the 90's and beyond. Part I. Richard H. Stroud (Ed.). National Coalition for Marine Conservation Inc. Savannah, Georgia.

Bartoo, Norman W. 1987. (Editor) Tuna and Billfish - Summaries of Major Stocks. SWFC Admin. Rep., La Jolla, LJ-87-26.

Sakagawa, G.T., A.L. Coan and N.W. Bartoo. 1987. Patterns in longline fishery data and bigeye tuna catches. Mar. Fish. Rev. 49(4):47-66.

Holts, D.B., E.C. Weber and N.W. Bartoo. 1985. Report of the 1984 Pacific albacore gillnet survey. SWFC Admin. Rep., La Jolla, LJ-85-11. 20 pp.

Holts, D.B. and N.W. Bartoo. 1985. Report of the ninth north Pacific albacore workshop. SWFC Admin. Rep. La Jolla, LJ-85-25. 19 pp.

Bartoo, N. and T. Shiohama. 1985. A production model analysis of the North Pacific albacore population including estimates of the sensitivity of results to measure errors in input data. Far Seas Fish. Res. Lab. Bull. 22:109-118.

Coan, A.L. and N.W. Bartoo. 1985. Collection of Task I, II, and biological data for the United States Atlantic Ocean fisheries. Coll. Vol. Sci. Pap., Int. Comm. Conserv. Atl. Tunas, Madrid, Spain (SCRS/84/88), Vol. XXIII(2):433-436.

Coan, A.L. and N.W. Bartoo. 1984. Effects of sample size on the accuracy of length-frequency sampling of tunas transhipped to Puerto Rico. Coll. Vol. Sci. Pap., Int. Comm. Conserv. Atl. Tunas, Madrid, Spain (SCRS/83/59), Vol XX(1):68-74.

Kleiber, P. and N. Bartoo. 1984. An approach to the juvenile tropical tuna problem of ICCAT. Coll. Vol. Sci. Pap., Int. Comm. Conserv. Atl. Tunas, Madrid, Spain (SCRS/84/7), Vol XX(2):23-26.

Majors, A.P., A.L. Coan, N.W. Bartoo and Forrest Miller. 1984. Summary of the 1983 North Pacific albacore

fishery data. SWFC Admin. Rep., La Jolla, LJ-84-13, 44 pp.

Bartoo, N. and A.L. Coan. 1983. Effects of sample size on length-frequency sampling. Working paper submitted to the Eighth North Pacific Workshop, Far Seas Fisheries Research Laboratory, Shimizu, Japan.

Bartoo, Norman W. and A.L. Coan. 1983. Production model analysis of the South Atlantic albacore stock and effects of data accuracy. Coll. Vol. Sci. Pap., Int. Comm. Conserv. Atl. Tunas, Madrid, Spain (SCRS/82/52), Vol. XVIII(2):421-433.

Bartoo, Norman W. and Keith R. Parker. 1983. Stochastic age-frequency estimation using the von Bertalanffy growth equation. Fish. Bull., U.S. 80(1):91-96.

Majors, A.P., A.L. Coan, N. Bartoo and F. Miller. 1983. Summary of the 1982 North Pacific albacore fishery data. SWFC Admin. Rep., La Jolla, LJ-83-14, 40 pp.

Bartoo, N. and K. Parker. 1982. Stochastic age-frequency estimation using the von Bertalanffy growth equation. Coll. Vol. Sci. Pap., Int. Comm. Conserv. Atl. Tunas, Madrid, Spain (SCRS/81/53), Vol. XVII(1):35-43.

Majors, A.P., A.L. Coan, N. Bartoo and F. Miller. 1982. Summary of the 1981 North Pacific albacore fishery data. SWFC Admin. Rep., La Jolla, LJ-82-12, 35 p.

Bartoo, Norman W. 1981. An updated stochastic spawner/recruit relationship for North Atlantic albacore. Coll. Vol. Sci. Pap., Int. Comm. Conserv. Atl. Tunas, Madrid, Spain (SCRS 1980), Vol. XV(2):204-211.

Bartoo, Norman. 1981. Status Report: North Atlantic Albacore. In: Status Reports on World Tuna and Billfish Stocks. U.S. Dep. Comm., NOAA Tech. Memo. NMFS-SWFC-15. 300 pp.

Bartoo, Norman. 1981. Status Report: South Atlantic Albacore. In: Status Reports on World Tuna and Billfish Stocks. U.S. Dep. Comm., NOAA Tech. Memo. NMFS-SWFC-15. 300 pp.

Evans, Richard H. and Norman Bartoo. 1981. Status Report: Atlantic Skipjack Tuna. In: Status Reports on World Tuna and Billfish Stocks. U.S. Dep. Comm., NOAA Tech Memo. NMFS-SWFC-15. 300 pp.

Bartoo, N.W. 1980. Further analysis on spawner/recruit relationships for North Atlantic albacore. Coll. Vol. Sci. Pap., Int. Comm. Conserv. Atl. Tunas, Madrid, Spain (SCRS 1979), Vol. IIX(2):391-406.

Bartoo, N. and Z. Suzuki. 1980. Pacific Yellowfin Tuna. In: FAO Fish. Tech. Pap., (200). National Marine Fisheries Service, Southwest Fisheries Center, Honolulu Laboratory and the Far Seas Fisheries Research Laboratory of the Fisheries Agency of Japan. Shimizu, Japan, 13-22 June, 1979. 89 pp.

Coan, A.L., N.W. Bartoo and S.M. Moore. 1980. An evaluation of the adequacy of available length-frequency and catch-effort data for determining the effectiveness of alternate management actions designed to raise the yield-per-recruit of yellowfin tuna in the eastern tropical Atlantic. Coll. Vol. Sci. Pap., Int. Comm. Conserv. Atl. Tunas, Madrid, Spain (SCRS/79/75), Vol. IX(1):102-137.

Bartoo, N.W. 1979. Report of the Fourth North Pacific Albacore Workshop, Shimizu, Japan. Far Seas Fish. Res. Lab. Contr. No. 212, 31 pp.

Bartoo, N.W. 1979. The status of the North Atlantic albacore (*Thunnus alalunga*) stock. Coll. Vol. Sci. Pap., Intl. Comm. Conser. Atl. Tunas, Madrid, Spain (SCRS 1978), Vol. VIII(2):290-303.

Bartoo, Norman, Noelle Beerman and Gary T. Sakagawa, 1979. United States Consumption and Production of Albacore (*Thunnus alalunga*). SWFC Admin. Rep. La Jolla, LJ-79-16. 17 pp.

Bartoo, N.W. and A.L. Coan. 1979. Changes in the yield-per-recruit of yellowfin tuna (*Thunnus albacares*) under

the ICCAT minimum size regulation. Coll. Vol. Sci. Pap., Int. Comm. Conserv. Atl. Tunas, Madrid, Spain (SCRS/79/75), Vol VIII(1):120-138.

Bartoo, N.W. and Earl C. Weber. 1979. Status of the North Pacific albacore stock from the yield-per-recruit and recruitment standpoints. SWFC Admin. Rep., La Jolla, LJ-79-15. 55 pp.

Bartoo, N.W. and G.T. Sakagawa. 1978. Size frequency of bigeye tuna (*Thunnus obesus*) in the catch of the Atlantic surface fishery, 1969-1975. Coll. Vol. Sci. Pap., Int. Comm. Conserv. Atla. Tunas, Madrid, Spain (SCRS 1977), Vol VII(1):97-104.

Eggers, D.M., N.W. Bartoo, N.A. Rickard, R.E. Nelson, R.C. Wissmar, R.L. Burgner and A.H. Devol. 1978. The Lake Washington Ecosystem: The Perspective from the Fish Community Production and Forage Base. J. Fish. Res. Board Can. 35:1553-1571.

Bartoo, N.W. 1977. Population parameter estimates and energy budgets for peamouth, northern squawfish, and yellow perch in Lake Washington. Ph.D. dissertation, University of Washington, Seattle. 144 pp.

Bartoo, N.W. 1977. Proportions of a yellow perch population surfacing after a rotenone treatment. Prog. Fish Cult. 39(1):27-28.

Walton, J.M. and N.W. Bartoo. 1976. Flatfish densities determined with a driver-operated flounder sampler. J. Fish. Res. Board Can. 33:2834-2836.

Bartoo, N.W. 1974. A predictive benthic and littoral fish model for Lake Washington - concepts and results. In Proceedings of 37th Annual Meeting of American Society of Limnology and Oceanography.

Wissmar, R.C., D.M. Eggers and N.W. Bartoo. 1974. Analysis of lake ecosystems: Lake Washington drainage basin, p. 70-96. In R.H. Waring and R.L. Edmonds (Eds.). Integrated Research in the Coniferous Forest Biome. Coniferous Forest Biome, Ecosystem Analysis Studies, Univ. Washington Bull. 5.

Bartoo, N.W., R.G. Hansen and R.S. Wydowski. 1973. A portable vertical gillnet system. Prog. Fish Cult. 35(4):231-234.

Bartoo, N.W. 1972. The vertical and horizontal distributions of northern squawfish, peamouth, yellow perch and adult sockeye salmon in Lake Washington. M.S. thesis, University of Washington, Seattle. 60 pp.

Hansen, R. and N. Bartoo. 1970. Development of a systematic sampling scheme to determine the distribution, relative abundance, and biomass of benthic and littoral fishes in Lake Washington, p. 37-38. Research in Fisheries, College of Fisheries, University of Washington, Contr. No. 340.