

PUBLICATIONS 2000

Science Branch
Pacific Region

Direction des Sciences
Région du Pacifique



Fisheries
and Oceans
Science

Pêches
et Océans
Sciences

Canada 

PUBLICATIONS LIST

2000

SCIENCE BRANCH

PACIFIC REGION

FISHERIES AND OCEANS CANADA

LISTE DES PUBLICATIONS

2000

DIRECTION DES SCIENCES

RÉGION DU PACIFIQUE

PÊCHES ET OCÉANS CANADA

INTRODUCTION

This report summarizes staff publications in 2000. Publications for this year are listed in three categories. "Reviewed publications" are reviewed by world authorities on the relevant topics and are published in recognized scientific journals. "Other publications" are available from the authors. "Research documents" are available from the Canadian Stock Assessment Secretariat in Ottawa. Please consult the list of scientific staff included in this publication for the locations and mailing address of the authors.

Regional Headquarters for Sciences Branch is the Institute of Ocean Sciences in Sidney. Other facilities operated by the Branch include the Pacific Biological Station, the West Vancouver Laboratory, and the Cultus Lake Laboratory. Staff are also located on the waterfront in Vancouver and Prince Rupert, at the Institute of Ocean Sciences in Sidney, the Regional DFO Headquarters and Simon Fraser University in Vancouver, the South Coast Division Office in Nanaimo, the Yukon/Northern B.C. Division Office in Whitehorse, the Fraser River Division Office in New Westminster, and Kamloops.

L. Richards
Acting Regional Director – Science
Pacific Region

INTRODUCTION

Le présent rapport fait la synthèse des publications produites par notre personnel en 2000. Ces publications figurent dans l'une ou l'autre des trois listes ci-dessous. Les "publications examinées" ont été évaluées par des spécialistes internationaux du domaine et ont été publiées dans des revues scientifiques de renom. Les publications figurant dans la catégorie "Autres publications", elles sont disponibles auprès des auteurs. Les "Documents de recherche" sont fournis par le Secrétariat canadien pour l'évaluation des stocks à Ottawa. Veuillez consulter la liste du personnel scientifique incluse dans le présent document afin de trouver l'établissement et l'adresse postale des auteurs.

Le bureau principal régional de la Direction des Sciences se trouve à l'Institut des Sciences de la mer à Sidney. Les autres installations exploitées par la Direction comprennent la Station biologique du Pacifique, le Laboratoire de West Vancouver, et le Laboratoire de Cultus Lake. Le personnel de la Direction oeuvre également aux bureaux du bord de mer de Vancouver et Prince Rupert, à l'Institut des Sciences de la mer à Sidney, à l'administration régionale du MPO et à l'université Simon Fraser à Vancouver, à la Division de la côte sud à Nanaimo, à la Division du nord de la C.-B. et du Yukon à Whitehorse et à la Division du fleuve Fraser à New Westminster et à Kamloops.

L. Richards
Directeur régional intérimaire - Sciences
Région du Pacifique

SCIENTIFIC STAFF OF THE SCIENCE BRANCH
PACIFIC REGION

Dr. L. Richards Acting Regional Director - Science

NAME	DISCIPLINE
Dr. R. Addison ⁴	Organic pollution effects on marine mammals
D. Anderson	Fraser River salmon program management
R. Bailey ⁹	Coho salmon population dynamics
V. A. Ballantyne ⁴	Creation and interpretation of scientific software, documentation of current and tidal model runs
S. Bates	Salmon data management and analysis
Dr. T. Beacham	Molecular genetics
Dr. R. Beamish	Marine fish ecology
Dr. I. Birtwell ²	Pollution and fish habitat research
J. A. Boutillier	Shrimp and prawn stock assessment and biology
Dr. S. Bower	Marine invertebrate diseases
I. Boyce ¹	Yukon drainage salmon data
Dr. M. Bradford ¹	Quantitative ecology
B. Bravender	Estuarine ecology
R. Brown ⁴	Management of oceanographic data
T. G. Brown	Fish-forestry interactions and river habitat
T. J. Brown	Coastal ecology and river habitat
Dr. A. Campbell	Population dynamics of geoduck, abalone, sea urchin, octopus, and sea cucumber
J. Candy	Genetic stock identification
Dr. E. Carmack ⁴	Ocean physics; circulation and mixing
A. Cass	Fraser River sockeye and pink salmon forecasting and assessment
S. Christensen	Database development
Dr. C. Clarke	Growth and smolting in salmonids, salmonid aquaculture
S. Cox-Rogers ⁵	Recreational fishery assessment; northern sockeye assessment
Dr. W.R. Crawford ⁴	Ocean tides, tidal prediction, coastal oceanography, ocean turbulence, satellite altimetry
Dr. W.J. Cretney ⁴	Hydrocarbon distribution; fate and effects
N.F. Crewe ⁴	Analysis of chlorinated dibenzodioxins and furans
G. Cronkite	Fisheries biology, acoustics, and fishing technology
Dr. P. Cummins ⁴	Ocean physics; ocean circulation and tidal modelling
Dr. K. Denman ⁴	Physical-biological interactions in the sea
Dr. R. Devlin ²	Molecular genetics
J. Fargo	Flatfish stock assessment and biology
Dr. D. Famer ⁴	Ocean physics; acoustics
B. Finnegan	North and central coast coho assessment
J. R. Forbes ⁴	Marine phytoplankton ecology, toxic algae
Dr. M. Foreman ⁴	Numerical modelling, tides, coastal circulation, river modelling
C. Fort	Herring spawn database management

K. Fraser	Salmon mark recovery data management
T.L. Fraser ⁴	Sample preparation for dioxin, furan, and PCB analysis
Dr. H. Freeland ⁴	Physical oceanography
Dr. A. Gargett ⁷	Physical oceanography, turbulence, climate variability
R. Ginetz ¹	Aquaculture; operations and policy coordination
L. Godbout	Salmon escapement
C. Gosselin ¹	Salmon biology/ecology
Dr. J. Gower ⁴	Physical oceanography, specializing in satellite observations
V. Haist	Herring stock assessment
M. Hamer	Data management; systems maintenance
C. Hand	Sea cucumber and geoduck biology and stock assessment
Dr. B. Hargreaves	Chinook and coho; fisheries oceanography
Dr. D. Hay	Biology and assessment of small pelagic fishes
Dr. D. Higgs ²	Cultured salmonid nutrition, feedstuff digestibility, salmon quality, alternate protein sources
Dr. G. Holloway ⁴	Ocean physics; currents
Dr. B. Holtby	Coho assessment and biology
J. Hume ³	Sockeye ecology
Dr. K. Hyatt	Salmon stock status, life history, and ecology
Dr. M.G. Ikonomou ⁴	Mass spectrometry
Dr. J. Irvine	Coho salmon assessment, stream habitat
Dr. G. S. Jamieson	Crab, urchin and abalone population dynamics and biology
J. Jensen	Incubation, water quality, alternate treatments
S. Johnston ⁶	Fisheries management and stock assessment of transboundary and Yukon systems
Dr. S. Jones	Fish diseases
R. Kadowaki	Coho salmon ecology
Dr. M. Kent	Fish diseases
D. Kieser	Fish disease control, transplants
Dr. R. Kieser	Population hydroacoustic estimation
Dr. J. King	Fisheries oceanography; groundfish stock assessment; climate-ocean dynamics
H. Kreiberg	Chinook strain comparison, aquaculture production improvements, stress assessment
R. Kronlund	Statistics, modelling, stock assessment
Dr. G. Kruzyński ⁴	Toxicology and physiology
R. Lauzier	Shellfish assessment
W. Leudke ⁸	Salmon stock assessment
Dr. C. Levings ²	Coastal and estuarine habitats
M. Li ⁴	Physical oceanography and biological/physical interactions
Dr. R. W. Macdonald ⁴	Chemical oceanography; processes affecting contaminant transport in arctic and west coast marine systems
Dr. S. Macdonald ¹⁰	Fish forestry interactions
E. MacIsaac ²	Salmon foodchains
Dr. D. L. Mackas ⁴	Zooplankton ecology, biological oceanography
D. Martens ³	Aquatic toxicology
Dr. D. Masson ⁴	Ocean physics; waves
G. McFarlane	Marine fish stock assessment, population dynamics and biology, fish/ocean interactions
S. McKinnell	Salmon stock assessment

Dr. F.A. McLaughlin ⁴	Arctic geochemistry, oceanography
R. McNicol ¹	North coast chinook assessment
Dr. H. Melling ⁴	Polar physical oceanography, sea ice, polar climate
Dr. K.M. Miller	Molecular genetics
P. Milligan ¹	Taku River and transboundary assessment biology
J. Morris	Salmon ecology
K. Morton ³	Zooplankton and fish feeding mechanisms
Dr. T. J. Mulligan	Hydroacoustics, stock identification, mathematical analyses
C. Murray	Stock assessment; salmon population dynamics and biology
D. Nagtegaal	Chinook stock assessment
C. Neville	Strait of Georgia carrying capacity
Dr. D. Noakes	Mathematics, statistics, operations research
P. Olesiuk	Marine mammals
N. Olsen	Computer programming and data analysis
V. Palermo ⁷	General ecology, statistics, and computer science
D. Peacock ⁵	North and central coast salmon assessment
R. Perkin ⁴	Arctic oceanography, pacific coast ocean climate, salinity measurement, instrumentation
Dr. I. Perry	Fisheries oceanography, pelagic food webs, early life history of fish
T. Perry	Fisheries biologist, salmon management
A. Phillips	Invertebrates, crab
M. Poon	Catch statistics
P. Rankin	Lake enrichment
Dr. L. Richards	Multispecies stock assessments, mathematical analysis
Dr. B. Riddell	Salmon genetics and assessments, international fisheries
S. Romaine	Biological acoustics, zooplankton ecology
P. Ross	Wildlife toxicology; immunotoxicology; marine mammal toxicology
D. Rutherford	Central coast sockeye, pink, and chum assessment
M. Saunders	Groundfish stock assessment and biology
Dr. J. Schnute	Mathematical analysis and modelling
N. Schubert ⁷	Fraser River stock assessment
J. Schweigert	Herring stock assessment and stock identification
R. Semple ⁷	Chinook and coho stock assessment
T. Shardlow ⁸	Salmon fishery management and spawner studies
K. Shortreed ²	Factors affecting juvenile sockeye growth and survival
K. Simpson	Coho salmon stock assessment and biology
B. Smiley ⁸	State of environment reporting, data inventory and quality control, EIA methodology
B. Snyder ¹	Salmon stocks status
T.K. Sowden ⁴	Environmental data, contaminants information system
B. Spilsted ⁵	North and central coast coho assessment; salmon data management
S. Spohn ¹	Pollution toxicology
R. Stanley	Shelf rockfish stock assessment and biology, sampling studies
Dr. M. Stocker	Multispecies stock assessments
D. Stucchi ⁴	Coastal pollution, water quality, physical oceanography
R. Tanasichuk	Herring ecology and biology
Dr. R. Thomson ⁴	Physical oceanography, with expertise in bioacoustics and oceanic circulation in both coastal, deep sea and hydrothermal vent regions
G. Traxler	Fish diseases

Dr. M. V. Trevorrow ⁴	Development and experiment with underwater sonar and sidescan systems for detection of fish and zooplankton
Dr. S. Vagle ⁴	Acoustical oceanography
C. Wallace	Marine fisheries assessment and management models
Dr. D. Ware	Climate change and fish population dynamics; ecosystem dynamics
Dr. D. Welch	Fisheries oceanography, mathematical population dynamics, statistical analysis, operations research, ocean biology of salmon
D. Whitaker	Parasitology
T. Whitehouse ⁷	Fraser River stock assessment, adult enumeration
F. Whitney ⁴	Ocean chemistry; carbon and nitrogen cycling
Dr. J.N.C. Whyte	Marine plants and shellfish chemistry and nutrition, toxic algae
P. Withler	Biometrics; acoustics; computer programming
R. Withler	Salmon genetics
Dr. C.S. Wong ⁴	Ocean biogeochemistry, including ocean tracers, global carbon cycle, nutrients productivity, GHGs.
Dr. C. Wood	Salmon population biology; population genetics and conservation biology
L. Yamanaka	Rockfish stock assessment and biology
D. Yelland ⁴	Oceanographic sampling and data analysis

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**PERSONNEL SCIENTIFIQUE DE LA DIRECTION DES SCIENCES
RÉGION DU PACIFIQUE**

D^r L. Richards Directeur régional intérimaire- Sciences

NOM	DISCIPLINE
D ^r R. Addison ⁴	Effets de la pollution organique sur les mammifères marins
D. Anderson	Gestion du programme du saumon du Fraser
R. Bailey ⁹	Dynamique des populations du saumon coho
V. A. Ballantyne ⁴	Création et interprétation de logiciels scientifiques et documentation de passages de modèles (courants et marées)
S. Bates	Gestion et analyse de données sur le saumon
D ^r T. Beacham	Génétique moléculaire
D ^r R. Beamish	Écologie des poissons de mer
D ^r I. Birtwell ²	Recherche sur la pollution et l'habitat du poisson
J. A. Boutillier	Biologie des crevettes et évaluation des stocks
D ^r S. Bower	Maladies des invertébrés marins
I. Boyce ¹	Données sur les saumons du bassin du Yukon
D ^r M. Bradford ¹	Écologie quantitative
B. Bravender	Écologie des estuaires
R. Brown ⁴	Gestion de données océanographiques
T. G. Brown	Interactions poisson-forêt et habitat fluvial
T. J. Brown	Écologie côtière et habitat fluvial
D ^r A. Campbell	Dynamique des populations: panope, ormeau, oursin, poulpe et holothurie
J. Candy	Identification génétique des stocks
D ^r E. Carmack ⁴	Physique océanique; circulation et mélange
A. Cass	Prévision et évaluation des stocks du saumon rouge et rose du Fraser
S. Christensen	Développement de bases de données
D ^r C. Clarke	Croissance et smoltification chez les salmonidés, salmoniculture
S. Cox-Rogers ⁵	Évaluation des pêches de récréation; évaluation du saumon rouge du nord
D ^r W.R. Crawford ⁴	Marées océaniques, prédiction des marées, océanographie côtière, turbulence océanique, altimétrie par satellite
D ^r W.J. Cretney ⁴	Distribution des hydrocarbures; devenir et effets
N.F. Crewe ⁴	Analyse de dibenzodioxines chlorées et de furanes
G. Cronkite	Biologie et acoustique des pêches, technologie halieutique
D ^r P. Cummins ⁴	Physique océanique; circulation océanique et modélisation des marées
D ^r K. Denman ⁴	Interactions physiques-biologiques dans la mer
D ^r R. Devlin ²	Génétique moléculaire
J. Fargo	Biologie des poissons plats et évaluations des stocks
D ^r D. Farmer ⁴	Physique océanique; acoustique
B. Finnegan	Évaluation du saumon coho de la côte nord et centrale
J. R. Forbes ⁴	Écologie du phytoplancton marin, algues toxiques
D ^r M. Foreman ⁴	Modélisation numérique, marées, circulation côtière, modélisation de rivières
C. Fort	Gestion de bases de données sur les oeufs de hareng

K. Fraser	Gestion de bases de données sur la récupération des marques au saumon
T.L. Fraser ⁴	Préparation d'échantillons pour l'analyse de dioxines, furanes et BPC
D ^r H. Freeland ⁴	Océanographie physique
D ^r A. Gargett ⁴	Océanographie physique, turbulence, variabilité du climat
R. Ginetz ¹	Aquaculture; coordination des opérations et de la politique
L. Godbout	Échappement du saumon
C. Gosselin ¹	Biologie et écologie du saumon
D ^r J. Gower ⁴	Océanographie physique; se spécialise dans les observations par satellite
V. Haist	Évaluation des stocks de hareng
M. Hamer	Gestion des données; entretien des systèmes
C. Hand	Biologie et évaluation des stocks d'holothurie et de panope
D ^r B. Hargreaves	Saumon quinnat et coho; océanographie des pêches
D ^r D. Hay	Biologie et évaluation de petits poissons pélagiques
D ^r D. Higgs ²	Nutrition des salmonidés d'élevage, digestibilité des aliments, qualité du saumon, sources auxiliaires de protéines
D ^r G. Holloway ⁴	Physique océanique; courants
D ^r B. Holtby	Évaluation et biologie du saumon coho
J. Hume ³	Écologie du saumon rouge
D ^r K. Hyatt	Statut des stock, stades de la vie, et écologie du saumon
D ^r M.G. Ikonomou ⁴	Spectrométrie de masse
D ^r J. Irvine	Évaluation du saumon coho, habitat des cours d'eau
D ^r G. S. Jamieson	Dynamique des populations et biologie: crabe, oursin et ormeau
J. Jensen	Incubation, qualité de l'eau, traitements parallèles
S. Johnston ⁶	Gestion des pêches et évaluation des stocks des systèmes transfrontaliers et du Yukon
D ^r S. Jones	Maladies des poissons
R. Kadowaki	Écologie du saumon coho
D ^r M. Kent	Maladies des poissons
D. Kieser	Contrôle des maladies des poissons, transplantations
D ^r R. Kieser	Estimation hydroacoustique des populations
D ^r J. King	Océanographie de pêche; évaluation des stocks de poisson de fond; dynamique de climat-océan
H. Kreiberg	Comparaison des lignées de saumon quinnat, améliorations de la production aquicole, évaluation du stress
R. Kronlund	Statistique, modélisation, évaluation des stocks
D ^r G. Kruzynski ⁴	Toxicologie et physiologie
R. Lauzier	Évaluation des mollusques et crustacés
W. Leudke ⁸	Évaluation des stocks de saumon
D ^r C. Levings ²	Habitats côtiers et estuariens
D ^r M. Li	Océanographie physique, et interactions biologiques/physiques
D ^r R. W. Macdonald ⁴	Océanographie chimique; processus affectant la migration de contaminants dans les systèmes marins de la côte Ouest et de l'Arctique
D ^r S. Macdonald ¹⁰	Interactions poisson-forêt
E. MacIsaac ²	Chaînes alimentaires du saumon
D ^r D. L. Mackas ⁴	Écologie du zooplancton, océanographie biologique
D. Martens ³	Toxicologie aquatique
D ^r D. Masson ⁴	Physique océanique; vagues
G. McFarlane	Évaluation des stocks de poissons marins, biologie et dynamique des populations, interactions poisson-océan
S. McKinnell	Évaluation des stocks de saumon

D ^r F.A. McLaughlin ⁴	Géochimie et océanographie de l'Arctique
R. McNicol	Évaluation du saumon quinnat de la côte du nord
D ^r H. Melling ⁴	Océanographie physique polaire, glaces de mer, climat polaire
D ^r K.M. Miller	Génétique moléculaire
P. Milligan ¹	Biologie et évaluation de la rivière Taku et des rivières transfrontalières
J. Morris	Écologie du saumon
K. Morton ³	Zooplancton et mécanismes d'alimentation du poisson
D ^r T. J. Mulligan	Hydroacoustique, identification de stocks, analyses mathématiques
C. Murray	Évaluation des stocks; biologie et dynamique des populations de saumons
D. Nagtegaal	Évaluation des stocks du saumon quinnat
C. Neville	Capacité d'exploitation du détroit de Georgia
D ^r D. Noakes	Recherches mathématiques, statistiques et opérationnelles
P. Olesiuk	Mammifères marins
N. Olsen	Programmation informatique et analyse de données
V. Palermo ⁷	Écologie générale, statistique et ordinaire
D. Peacock ⁵	Évaluation du saumon de la côte nord et centrale
R. Perkin ⁴	Océanographie arctique, climat océanique de la côte Ouest, mesure de la salinité, instrumentation
T. Perry	Biologiste des pêches, gestion du saumon
D ^r I. Perry	Océanographie des pêches, réseaux alimentaires pélagiques, premiers stades de la vie du poisson
A. Phillips	Invertébrés, crabe
M. Poon	Statistiques de prises
P. Rankin	Enrichissement de lacs
D ^r L. Richards	Évaluation polyvalente de stocks, analyse mathématique
D ^r B. Riddell	Génétique et évaluations du saumon, pêches internationales
S. Romaine	Acoustique biologique, écologie du zooplancton
D ^r P. S. Ross	Toxicologie de la faune, immunotoxicologie, toxicologie de mammifère marin
D. Rutherford	Évaluation du saumon rouge, rose, et kéta de la côte centrale
M. Saunders	Biologie des poissons de fond et évaluation des stocks
D ^r J. Schnute	Analyse et modélisation mathématiques
N. Schubert ⁷	Évaluation des stocks du Fraser, dénombrement d'adultes
J. Schweigert	Évaluation des stocks de hareng et identification des stocks
R. Semple ⁷	Évaluation des stocks de saumons quinnat et coho
T. Shardlow ⁸	Gestion des pêches au saumon et études sur les géniteurs
K. Shortreed ²	Facteurs affectant la croissance et la survie du saumon rouge juvénile
K. Simpson	Biologie du saumon coho et évaluation des stocks
B. Smiley ⁸	Rapports sur l'état de l'environnement, recensement des données et contrôle de la qualité, méthodologie des EIE
B. Snyder ¹	Statut des stocks de saumon
T.K. Sowden ⁴	Données environnementales, système d'information sur les contaminants
B. Spilsted ⁵	Recherches biologiques sur le saumon
S. Spohn ¹	Toxicologie de pollution
R. Stanley	Biologie de la sébaste du plateau continental et évaluation des stocks, études sur échantillons
D ^r M. Stocker	Évaluation polyvalente des stocks
D. Stucchi ⁴	Pollution côtière, qualité de l'eau, océanographie physique
R. Tanasichuk	Écologie et biologie du hareng

D ^r R. Thomson ⁴	Océanographie physique avec spécialisation en bioacoustique et en circulation océanique dans les régions côtières, hauturières et de bouches hydrothermales
G. Traxler	Maladies du poisson
D ^r M. V. Trevorrow ⁴	Développement et expérimentation de sonars et sonars latéraux sous-marins dans la détection du poisson et du zooplancton
D ^r S. Vagle ⁴	Océanographie acoustique
C. Wallace	Modèles de gestion et d'évaluation des pêches marines
D ^r D. Ware	Dynamique des changements climatiques et des populations des poissons; dynamique des écosystèmes
D ^r D. Welch	Océanographie halieutique, dynamique mathématique des populations, analyse statistique, recherche opérationnelle, biologie du saumon dans l'océan
D. Whitaker	Parasitologie
T. Whitehouse ⁷	Évaluation des stocks du Fraser, dénombrement d'adultes
F. Whitney ⁴	Chimie océanique; cycle du carbone et de l'azote
D ^r J.N.C. Whyte	Chimie et nutrition des plantes marines et des crustacés et coquillages, algues toxiques
P. Withler	Biométrie; acoustique; programmation d'ordinateur
R. Withler	Génétique du saumon
D ^r C.S. Wong ⁴	Biogéochimie océanique, y compris traceurs marins, cycle global du carbone, productivité de substances nutritives, gaz à effet de serre
D ^r C. Wood	Biologie des populations du saumon; biologie sur la génétique et conservation des populations
L. Yamanaka	Biologie de la sébaste et évaluation des stocks
D. Yelland ⁴	Échantillonnage et analyse de données océanographiques

ADRESSES DES INSTALLATIONS

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PRIMARY 2000/Publications examinées 2000

- Arai, H.P. 2000. A Guide to the Animal Parasites of Albertan Fishes. *In* M.J. Kennedy [ed.] Synopsis of the Parasites of Vertebrates of Canada. 247 p. Alberta Agriculture, Food and Rural Development, Edmonton, Alberta.
- Barry, K.L., J.A. Grout, C.D. Levings, B.H. Nidle, and G.E. Piercey. 2000. Impacts of acid mine drainage on juvenile salmonids in an estuary near Britannia Beach in Howe Sound, British Columbia. *Can. J. Fish. Aquat. Sci.* 57: 2032-2043.
- Beacham, T.D., K.D. Le, M.R. Raap, K. Hyatt, W. Luedke, and R.E. Withler. 2000. Microsatellite DNA variation and estimation of stock composition of sockeye salmon, *Oncorhynchus nerka*, in Barkley Sound, British Columbia. *Fish. Bull.* 98: 14-24.
- Beacham, T.D., S. Pollard, and K.D. Le. 2000. Microsatellite DNA population structure and stock identification of steelhead trout (*Oncorhynchus mykiss*) in the Nass and Skeena Rivers in northern British Columbia. *Mar. Biotechnol.* 2: 587-600.
- Beacham, T.D., C.C. Wood, R.E. Withler, K.D. Le, and K.M. Miller. 2000. Application of microsatellite DNA variation to estimation of stock composition and escapement of Skeena River sockeye salmon (*Oncorhynchus nerka*). *N. Pac. Anadr. Fish Comm. Bull. No.2:* 263-276.
- Beamish, R.J., D. McCaughran, J.R. King, R.M. Sweeting, and G.A. McFarlane. 2000. Estimating the abundance of juvenile coho salmon in the Strait of Georgia by means of surface trawls. *N. Am. J. Fish. Manage.* 20: 369-375.
- Beamish, R.J. and G.A. McFarlane. 2000. Reevaluation of the interpretation of annuli from otoliths of a long-lived fish, *Anoplopoma fimbria*. *Fish. Res.* 46: 105-111.
- Beamish, R.J., G.A. McFarlane, and J.R. King. 2000. Chapter 5 Fisheries climatology: understanding decadal scale processes that naturally regulate British Columbia fish populations, p. 94-145. *In* P.J. Harrison and T.R. Parsons [eds.]. *Fisheries Oceanography An Integrative Approach to Fisheries Ecology and Management*, Department of Earth and Ocean Sciences, University of British Columbia, Canada, Blackwell Science.
- Beamish, R.J., D.J. Noakes, G.A. McFarlane, W. Pinnix, R. Sweeting, and J. King. 2000. Trends in coho marine survival in relation to the regime concept. *Fish. Oceanogr.* 9: 114-119.
- Bower, S.M. 2000. Infectious diseases of abalone (*Haliotis* spp.) and risks associated with transplantation, p. 111-122. *In* A. Campbell [ed.]. *Workshop on Rebuilding Abalone Stocks in British Columbia*. *Can. Spec. Publ. Fish. Aquat. Sci.* 130.
- Bradford, M.J., and J.R. Irvine. 2000. Land use, fishing, climate change, and the decline of Thompson River, British Columbia, coho salmon. *Can. J. Fish. Aquat. Sci.* 57: 13-16.

- Bradford, M.J., R.A. Myers, and J.R. Irvine. 2000. Reference points for coho salmon (*Oncorhynchus kisutch*) harvest rates and escapement goals based on freshwater production. *Can. J. Fish. Aquat. Sci.* 57: 677-686.
- Bradford, M.J., B.J. Pyper, and K.S. Shortreed. 2000. Biological responses of sockeye salmon to the fertilization of Chiklo Lake, a large lake in the interior of British Columbia. *N. Am. J. Fish. Manage.* 20: 661-671.
- Brand, D., S. Balfry, C. Eickhoff, W. Cretney, F. Law, G. Iwama, and R. Reid. 2000. Comparison of short-term changes in condition of hatchery-raised chinook salmon between polluted and reference estuaries, p. 35-54. *In* B. Barton, T. Pottinger, G. Iwama, and D.M. MacKinlay [eds.]. *Stress in Fish: New Directions, Symposium Proceedings, International Congress on the Biology of Fish, University of Aberdeen, Scotland July 23-27, 2000.*
- Brand, D., C. Eickhoff, W. Cretney, F. Law, and R. Reid. 2000. Liver histopathology and PAH bile metabolites found in English sole (*Pleuronectes vetulus*) collected from an area associated with aluminum smelting, p. 43-54. *In* C. Kennedy and D.M. MacKinlay [eds.]. *Fish Toxicology, Symposium Proceedings, International Congress on the Biology of Fish, University of Aberdeen, Scotland July 23-27, 2000.*
- Burd, B., R. Macdonald, and J. Boyd. 2000. Punctuated recovery of sediments and benthic infauna: a 19 year study of tailings deposition in a British Columbia fjord. *Mar. Environ. Res.* 49: 145-175.
- Candy, J.R. and T.D. Beacham. 2000. Patterns of homing and straying in southern British Columbia coded-wire tagged chinook salmon (*Oncorhynchus tshawytscha*) populations. *Fish. Res.* 47: 41-56.
- Chen, D.G., N.B. Hargreaves, D.M. Ware, and Y. Liu. 2000. A fuzzy logic model with genetic algorithm for analyzing fish stock-recruitment relationships. *Can. J. Fish. Aquat. Sci.* 57: 1878-1887.
- Clarke, W.C. 2000. Smolting, p. 879-884. *In* R.R. Stickney [ed.]. *Encyclopedia of Aquaculture, Texas Sea Grant College Program, Bryan, Texas. John Wiley & Sons, Inc, New York.*
- Coan, E.V., P.V. Scott, and F.R. Bernard. 2000. *Bivalve Seashells of Western North America, Marine bivalve mollusks from Arctic Alaska to Baja California. Santa Barbara Museum of Natural History. Allen Press, Kansas, 764 p.*
- Cretney, W.J. and M.B. Yunker. 2000. Concentration dependency of biota-sediment accumulation factors for chlorinated dibenzo-*p*-dioxins and dibenzofurans in Dungeness crab (*Cancer magister*) at marine pulp mill sites in British Columbia, Canada. *Environ. Toxicol. Chem.* 19: 3012-3023.
- Devlin, R.H., P. Swanson, W.C. Clarke, E. Plisetskaya, W. Dickhoff, S. Moriyama, T.Y. Yesaki, and C.-L. Hew. 2000. Seawater adaptability and hormone levels in growth-enhanced transgenic coho salmon, *Oncorhynchus kisutch*. *Aquaculture* 191: 367-385.

- Donaldson, E.M., I.I. Solar, and B. Harvey. 2000. Induced ovulation and spermiation, and factors influencing gamete quality of fishes, p. 13-19. *In* T.R. Tiersch and P.M. Mazik [eds.]. Cryopreservation in Aquatic Species, World Aquaculture Society, Baton Rouge, Louisiana.
- Dong, F.M., R.W. Hardy, and D.A. Higgs. 2000. Antinutritional factors, p. 45-51. *In* R.R. Stickney [ed.] Encyclopedia of Aquaculture, Texas Sea Grant College Program, Bryan, Texas. John Wiley and Sons, Inc., New York.
- Emmett, R., R. Llansó, J. Newton, R. Thom, M. Hornberger, C. Morgan, C. Levings, A. Copping, and P. Fishman. 2000. Geographic signatures of North American west coast estuaries. *Estuaries* 23 (6): 765-792.
- Eveson, J.P. and D.W. Welch. 2000. Evaluation of techniques for attaching archival tags to salmon: Influence on growth and survival, p. 29-35. *In* A. Moore and I. Russell [eds.]. Methodology and New Technology, Proceedings of the 3rd Conference on Fish Telemetry in Europe, June 2000.
- Farrell, A.P., P. Gallagher, C. Clarke, N. DeLury, H. Kreiberg, W. Parkhouse, and R. Routledge. 2000. Physiological status of coho salmon (*Oncorhynchus kisutch*) captured in commercial nonretention fisheries. *Can. J. Fish. Aquat. Sci.* 57: 1668-1678.
- Garrett, C., M. Li, and D. Farmer. 2000. The connection between bubble size spectra and energy dissipation rates in the upper ocean. *J. Phys. Oceanogr.* 30: 2163-2171.
- Gimenez-Bonafé, P., M. Laszczak, H.E. Kasinsky, M.J. Lemke, J.D. Lewis, M. Iskandar, T. He, M.G. Ikonomou, F.M. White, D.F. Hunt, M. Chiva, and J. Ausió. 2000. Characterization and evolutionary relevance of the sperm nuclear basic proteins from stickleback fish. *Mol. Reprod. Dev.* 57: 185-193.
- Goñi, M.A., M.B. Yunker, R.W. Macdonald, and T.E. Eglinton. 2000. Distribution and sources of organic biomarkers in arctic sediments from the Mackenzie River and Beaufort Shelf. *Mar. Chem.* 71: 23-51.
- Gresoviac, S.J., J.S. Khattra, S.A. Nadler, M.L. Kent, R.H. Devlin, C.P. Vivares, E. de la Fuente, and R.P. Hedrick. 2000. Comparison of small subunit ribosomal RNA gene and internal transcribed spacer sequences among isolates of the intranuclear microsporidian *Nucleospora salmonis*. *J. Euk. Microbiol.* 47: 379-387.
- Harner, T., L.M.M. Jantunen, T.F. Bidleman, L.A. Barrie, H. Kylin, W.M.J. Strachan, and R.W. Macdonald. 2000. Microbial degradation is a key elimination pathway of hexachlorocyclohexanes from the Arctic Ocean. *Geophys. Res. Lett.* 27: 1155-1158.
- Higgs, D.A. and F.M. Dong. 2000. Lipids and fatty acids, p. 476-496. *In* R.R. Stickney [ed.]. Encyclopedia of Aquaculture, Texas Sea Grant College Program, Bryan, Texas. John Wiley and Sons, Inc., New York.

- Hill, J.A., A. Kiessling, and R.H. Devlin. 2000. Coho salmon (*Oncorhynchus kisutch*) transgenic for a growth hormone gene construct exhibit increased rates of muscle hyperplasia and detectable levels of differential gene expression. *Can. J. Fish. Aquat. Sci.* 57: 939-950.
- Hyatt, K.D., and B.E. Riddell. 2000. The importance of "stock" conservation definitions to the concept of sustainable fisheries, p. 51-62. *In* E.E. Knudsen, C.R. Steward, D.D. MacDonald, J.E. Williams and D.W. Reiser [eds.]. *Sustainable Fisheries Management: Pacific Salmon*, Lewis Publishers, Boca Raton, Florida.
- Ikonomou, M.G., M. Fischer, T. He, R.F. Addison, and T. Smith. 2000. Congener patterns, spatial and temporal trends of polybrominated diphenyl ethers in biota samples from the Canadian West Coast and the Northwest Territories, p. 77-80. *In* Dr. M.S. Denison [ed.]. *Organohalogen Compounds Vol. 47, Persistent Organic Pollutants (POPs), Polybrominated Flame Retardants*. Dome Printing, Sacramento, California USA.
- Irvine, J.R., and M. Bradford. 2000. Declines in the abundance of Thompson River coho salmon in the interior of southern British Columbia, and Canada's coho recovery plan, p. 595-598. *In* L.M. Darling [ed.]. *Proceedings of a Conference on the Biology and Management of Species and Habitats at Risk, Kamloops, B.C., 15-19 Feb., 1999. Volume Two*. B.C. Ministry of Environment, Lands and Parks, Victoria, B.C. and University College of the Cariboo, Kamloops, B.C.
- Jamieson, G.S. 2000. Marine protected areas and their relevance to abalone (*Haliotis kamtschatkana*) conservation in British Columbia. *Can. Spec. Publ. Fish. Aquat. Sci.* 130: 139-147.
- Jia, X., A. Patrzykat, R.H. Devlin, P.A. Ackerman, G.K. Iwama, and R.E.W. Hancock. 2000. Antimicrobial peptides protect coho salmon from *Vibrio anguillarum* infections. *Appl. Environ. Microbiol.* 66: 1928-1932.
- Kent, M.L., J. Khattra, R.P. Hedrick, and R.H. Devlin. 2000. *Tetracapsula renicola* n.sp. (Myxozoa: Saccosporidae); The PKX myxozoan - the cause of proliferative kidney disease of salmonid fishes. *J. Parasitol.* 86: 103-111.
- Khattra, J.S., S.J. Gresoviac, M.L. Kent, M.S. Myers, R.P. Hedrick, and R.H. Devlin. 2000. Molecular detection and phylogenetic placement of a microsporidian from English sole (*Pleuronectes vetulus*) affected by X-cell pseudotumors. *J. Parasitol.* 86: 867-871.
- King, J.R. and R.J. Beamish. 2000. Diet comparisons indicate a competitive interaction between ocean age-0 chum and coho salmon. *N. Pac. Anadr. Fish Comm. Bull No. 2*: 65-74.
- King, J.R., G.A. McFarlane and R.J. Beamish. 2000. Decadal-scale patterns in the relative year class success of sablefish (*Anoplopoma fimbria*). *Fish. Oceanogr.* 9: 62-70.
- Kissil, G.W., I. Lupatsch, D.A. Higgs, and R.W. Hardy. 2000. Dietary substitution of soy and rapeseed protein concentrates for fish meal, and their effects on growth and nutrient utilization in gilthead seabream *Sparus aurata* L. *Aquacult. Res.* 31: 595-601.

- Kreiberg, H. 2000. Chapter 29: Stress and anesthesia, p. 503-511. *In* G.K. Ostrander [ed.]. *Handbook of Experimental Animals: The Laboratory Fish*. Academic Press, London.
- Li, M., A. Gargett, and K. Denman. 2000. What determines seasonal and interannual variability of phytoplankton and zooplankton in strongly estuarine systems? Application to the semi-enclosed estuary of Strait of Georgia and Juan de Fuca Strait. *Estuarine Coastal Shelf Sci.* 50: 467-488.
- Lio-Po, G.D., G.S. Traxler, L.J. Albright, and E.M. Leaño. 2000. Characterization of a virus obtained from snakeheads *Ophicephalus striatus* with epizootic ulcerative syndrome (EUS) in the Philippines. *Dis. Aquat. Org.* 43: 191-198.
- Liu, K.-K., L. Atkinson, C.T.A. Chen, S. Gao, J. Hall, R.W. Macdonald, L.T. McManus, and R. Quiñones. 2000. Exploring continental margin carbon fluxes on a global scale. *Eos, Trans. Am. Geo. Union* 81: 641-642, 644.
- Lockhart, W.L., R.W. Macdonald, P.M. Outridge, P. Wilkinson, J.B. DeLaronde, and J.W.M. Rudd. 2000. Tests of the fidelity of lake sediment core records of mercury deposition to known histories of mercury contamination. *Sci. Total Environ.* 260: 171-180.
- Macdonald, R.W. 2000. Arctic estuaries and ice: a positive-negative estuarine couple, p. 383-407. *In* E.L. Lewis, E.P. Jones, P. Lemke, T.D. Prowse, and P. Wadhams [eds.]. *Proceedings of the NATO Advanced Research Workshop on The Freshwater Budget of the Arctic Ocean*, Tallinn, Estonia 27 April-1 May 1998, Kluwer Academic Publishers, Netherlands.
- Macdonald, R.W., L.A. Barrie, T.F. Bidleman, M.L. Diamond, D.J. Gregor, R.G. Semkin, W.M.J. Strachan, Y.F. Li, F. Wania, M. Alaee, L.B. Alexeeva, S.M. Backus, R. Bailey, J.M. Bowers, C. Gobeil, C.J. Halsall, T. Harner, J.T. Hoff, L.M.M. Jantunen, W.L. Lockhart, D. Mackay, D.C.G. Muir, J. Pudykiewicz, K.J. Reimer, J.N. Smith, G.A. Stern, W.H. Schroeder, R. Wagemann, and M.B. Yunker. 2000. Contaminants in the Canadian Arctic: 5 years of progress in understanding sources, occurrence and pathways, p. 93-234. *In* R.W. Macdonald [Guest Editor] *The Science of the Total Environment, An International Journal for Scientific Research into the Environment and its Relationship with Man*, Special Issue, Sources, Occurrence, and Pathways of Contaminants in the Canadian Arctic: A Review. *Sci. Total Environ.* 254, Nos. 2-3.
- Macdonald, R.W., S.J. Eisenreich, T.F. Bidleman, J. Dachs, J.M. Pacyna, K.C. Jones, R.E. Bailey, D.L. Swackhamer, and D.C.G. Muir. 2000. Chapter 7, Case studies on persistence and long-range transport of persistent organic pollutants, p. 245-314. *In* G. Klečka, R. Boethling, J. Franklin, L. Grady, D. Graham, P.H. Howard, K. Kannan, R.J. Larson, D. Mackay, D. Muir, and D. van de Meent [eds.]. *Evaluation of Persistence and Long-Range Transport of Organic Chemicals in the Environment*, SETAC Special Publications Series, SETAC PRESS.
- Macdonald, R.W., D.P. Shaw, and C.B.J. Gray. 2000. 3.1 Contaminants in lake sediments and fish, p. 23-45. *In* C.B.J. Gray and T. Tuominen [eds.]. *Health of the Fraser River Aquatic Ecosystem: A synthesis of research conducted under the Fraser River Action Plan*, Environment Canada, Vancouver, BC,

- Margolis, L. T.E. McDonald, and E.L. Bousfield. 2000. The whale lice (Amphipoda: Cyamidae) of the northeastern Pacific Region. *Amphipacifica J. Aquat. System. Biol.* 11 (4): 63-117.
- Marsden, A.D. and R.E. DeWreede. 2000. Marine macroalgal community structure, metal content and reproductive function near an acid mine drainage outflow. *Environ. Pollut.* 110: 431-440.
- McFarlane, G.A., J.R. King, and R.J. Beamish. 2000. Have there been recent changes in climate: Ask the fish. *Prog. Oceanogr.* 47: 147-169.
- McLean, E. and R.H. Devlin. 2000. Application of biotechnology to enhance growth of salmonids and other fish, p. 17-55. *In* M. Fingerman and R. Nagabhushanam [eds.]. *Recent Advances in Marine Biotechnology, Volume 4: Aquaculture, Part B, Fishes.* Science Publishers Inc., Enfield, New Hampshire, USA.
- Naidu, A.S., L.W. Cooper, B.P. Finney, R.W. Macdonald, C. Alexander, and I.P. Semiletov. 2000. Organic carbon isotope ratios ($\delta^{13}\text{C}$) of Arctic Amerasian Continental shelf sediments. *Int. J. Earth Sci.* 89: 522-532.
- Nelson, R.J., M.P. Small, T.D. Beacham, and K.J. Supernault. 2000. Population structure of Fraser River chinook salmon (*Oncorhynchus tshawytscha*): an analysis using microsatellite DNA markers. *Fish. Bull.* 99: 94-107.
- Noakes, D.J., R.J. Beamish, and M.L. Kent. 2000. On the decline of Pacific salmon and speculative links to salmon farming in British Columbia. *Aquaculture* 183: 363-386.
- Noakes, D.J., R.J. Beamish, R. Sweeting, and J. King. 2000. Changing the balance: interactions between hatchery and wild Pacific coho salmon in the presence of regime shifts. *N. Pac. Anadr. Fish Comm. Bull. No. 2*: 155-163.
- Perry, R.I., J.A. Boutillier, and M.G.G. Foreman. 2000. Environmental influences on the availability of smooth pink shrimp, *Pandalus jordani*, to commercial fishing gear off Vancouver Island, Canada. *Fish. Oceanogr.* 9: 50-61.
- Peterman, R.M., B.J. Pyper, and J.A. Grout. 2000. Comparison of parameter estimation methods for detecting climate-induced changes in productivity of Pacific salmon (*Oncorhynchus* spp.). *Can. J. Fish. Aquat. Sci.* 57: 181-191.
- Powles, H., M.J. Bradford, R.G. Bradford, W.G. Doubleday, S. Innes, and C.D. Levings. 2000. Assessing and protecting endangered marine species. *ICES J. Mar. Sci.* 57: 669-676.
- Pringle, J.D., C.A. Wright, and M.W. Dunn [Editors] 2000. *Coastal Zone Canada '98, Coastal Challenges: Sharing Our Experiences - Building Our Knowledge.* Coastal Zone Canada British Columbia Association, Victoria, British Columbia, Canada. 212 p.
- Rantalainen, A-L., W.J. Cretney, and M.G. Ikononou. 2000. Uptake rates of semipermeable membrane devices (SPMDs) for PCDDs, PCDFs and PCBs in water and sediment. *Chemosphere* 40: 147-158.

- Rantalainen, A-L., N.F. Crewe, and M.G. Ikonomou. 2000. Comparison of three techniques for lipid removal from seal blubber: Gel permeation, acid treatment, and dialysis with semipermeable membrane. *Intern. J. Environ. Anal. Chem.* 76: 31-47.
- Raverty, S., D. Kieser, J. Bagshaw, and S. St-Hilaire. 2000. Renal infestation with *Parvicapsula minibicornis* in wild sockeye salmon from the Harrison and Adams rivers in British Columbia. *Can. Vet. J.* 41: 317-318.
- Roff, D.A. and M.J. Bradford. 2000. A quantitative genetic analysis of phenotypic plasticity of diapause induction in the cricket *Allonemobius socius*. *Heredity* 84: 193-200.
- Ross, A.R.S., M.G. Ikonomou, and K.J. Orians. 2000. Characterization of dissolved tannins and their metal-ion complexes by electrospray ionization mass spectrometry. *Anal. Chim. Acta* 411: 91-102.
- Ross, A.R.S., M.G. Ikonomou, and K.J. Orians. 2000. Electrospray ionization of alkali and alkaline earth metal species. Electrochemical oxidation and pH effects. *J. Mass Spectrom.* 35: 981-989.
- Ross, P.S. 2000. Marine mammals as sentinels in ecological risk assessment. *Hum. Ecol. Risk Assess.* 6: 29-46.
- Ross, P.S., G.M. Ellis, M.G. Ikonomou, L.G. Barrett-Lennard, and R.F., Addison. 2000. High PCB concentrations in free-ranging Pacific killer whales, *Orcinus orca*: effects of age, sex and dietary preference. *Mar. Poll. Bull.* 40: 504-515.
- Schnute, J.T., A. Cass, and L.J. Richards. 2000. A Bayesian decision analysis to set escapement goals for Fraser River sockeye salmon (*Oncorhynchus nerka*). *Can. J. Fish. Aquat. Sci.* 57: 962-979.
- Scott, D. and J.R. Irvine. 2000. Competitive exclusion of brown trout *Salmo trutta* L., by rainbow trout *Oncorhynchus mykiss* Walbaum, in lake tributaries, New Zealand. *Fish. Manage. Ecol.* 7: 225-237.
- Simms, W., S. Jeffries, M. Ikonomou, and P.S. Ross. 2000. Contaminant-related disruption of vitamin A dynamics in free-ranging harbor seal (*Phoca vitulina*) pups from British Columbia, Canada, and Washington State, USA. *Environ. Toxicol. Chem.* 19: 2844-2849.
- Simms, W. and P.S. Ross. 2000. Developmental changes in circulatory vitamin A (retinol) and its transport proteins in free-ranging harbour seal (*Phoca vitulina*) pups. *Can. J. Zool.* 78: 1862-1868.
- Smith, B.D., B.R. Ward, and D.W. Welch. 2000. Trends in wild adult steelhead (*Oncorhynchus mykiss*) abundance in British Columbia as indexed by angler success. *Can. J. Fish. Aquat. Sci.* 57: 255-270.

- Stanley, R.D., R. Kieser, K. Cooke, A.M. Surry, and B. Mose. 2000. Estimation of a widow rockfish (*Sebastes entomelas*) shoal off British Columbia, Canada as a joint exercise between stock assessment staff and the fishing industry. *ICES J. Mar. Sci.* 57: 1035-1049.
- Stern, G.A. and M.G. Ikononou. 2000. Temporal trends of polybrominated diphenyl ethers in SE Baffin beluga: increasing evidence of long range atmospheric transport, p. 81-84. *In* Dr. M.S. Denison [ed.] *Organohalogen Compounds Vol. 47, Persistent Organic Pollutants (POPs), Polybrominated Flame Retardants*. Dome Printing, Sacramento, California USA.
- Stevens, E.D. and R.H. Devlin. 2000. Intestinal morphology in growth hormone transgenic coho salmon. *J. Fish Biol.* 56: 191-195.
- Stevens, E.D. and R.H. Devlin. 2000. Gill morphometry in growth hormone transgenic Pacific coho salmon, *Oncorhynchus kisutch*, differs markedly from that in GH transgenic Atlantic salmon. *Environ. Biol. Fish.* 58: 113-117.
- Tanasichuk, R. 2000. 7.2 Canadian waters, p. 190-193. *In* I. Everson [ed.]. *Krill Biology, Ecology and Fisheries Chapter 7: Role of Krill in Marine Food Webs*, Blackwell Science.
- Tanasichuk, R.W. 2000. Age-specific natural mortality rates of adult Pacific herring (*Clupea pallas*) from southern British Columbia. *Can. J. Fish. Aquat. Sci.* 57: 2258-2266.
- Trudel, M., A. Tremblay, R. Schetagne, and J.B. Rasmussen. 2000. Estimating food consumption rates of fish using a mercury mass balance model. *Can. J. Fish. Aquat. Sci.* 57: 414-428.
- Van Loveren, H., P.S. Ross, A.D.M.E. Osterhaus, and J.G. Vos. 2000. Contaminant-induced immunosuppression and mass mortalities among harbor seals. *Toxicol. Lett.* 112-113: 319-324.
- Weisse, T. and E. MacIsaac. 2000. Significance and fate of bacterial production in oligotrophic lakes in British Columbia. *Can. J. Fish. Aquat. Sci.* 57: 96-105.
- Welch, D.W., B.R. Ward, B.D. Smith, and J.P. Eveson. 2000. Temporal and spatial responses of British Columbia steelhead (*Oncorhynchus mykiss*) populations to ocean climate shifts. *Fish. Oceanogr.* 9: 17-32.
- Wilson, J.Y., R.F. Addison, D. Martens, R. Gordon, and B. Glickman. 2000. Cytochrome P450 1A and related measurements in juvenile chinook salmon (*Oncorhynchus tshawytscha*) from the Fraser River¹. *Can. J. Fish. Aquat. Sci.* 57: 405-413.
- Withler, R.E. 2000. Genetic tools for identification and conservation of exploited abalone (*Haliotis* spp.) species, p. 101-110. *In* A. Campbell [ed.]. *Workshop on Rebuilding Abalone Stocks in British Columbia*, *Can. Spec. Publ. Fish. Aquat. Sci.* 130.
- Withler, R.E., K.D. Le, R.J. Nelson, K.M. Miller, and T.D. Beacham. 2000. Intact genetic structure and high levels of genetic diversity in bottlenecked sockeye salmon (*Oncorhynchus nerka*) populations of the Fraser River, British Columbia, Canada. *Can. J. Fish. Aquat. Sci.* 57: 1985-1998.

- Yunker, M.B. and W.J. Cretney. 2000. Bioavailability of chlorinated dibenzo-*p*-dioxins and dibenzofurans to Dungeness crab (*Cancer magister*) at marine pulp mill sites in British Columbia, Canada. Environ. Toxicol. Chem. 19: 2997-3011.
- Zhang, Z. and R.J. Beamish. 2000. Use of otolith microstructure to study life history of juvenile chinook salmon in the Strait of Georgia in 1995 and 1996. Fish. Res. 46: 239-250.

OTHER 2000/Autres publications 2000

- Addison, R.F., M.G. Ikonomou, and T.G. Smith. 2000. Residues of PCDD, PCDF, NO-CB, and MO-CB in ringed seals (*Phoca hispida*) from Holman, NWT, in 1981, 1991, and 1996. Can. Data Rep. Fish. Aquat. Sci. 1070: 43 p.
- Andersen, B.C. 2000. Temperatures in five tributary streams and the Middle River, and data from one meteorological station; in the Stuart-Takla watershed, 1996-1999. Can. Data Rep. Fish. Aquat. Sci. 1061: 79 p.
- Anderson, S.S. and B.A. Bravender. 2000. Diet analysis data for juvenile chinook salmon from the Campbell River estuary, Campbell River, B.C., during 1994 and 1995. Can. Data Rep. Fish. Aquat. Sci. 1058: 169 p.
- Barnes, D.P. and V.E. Magnusson. 2000. Water temperatures at selected sites in the Fraser River basin from 1997 to 1999. Can. Data Rep. Fish. Aquat. Sci. 1071: 226 p.
- Bravender, B.A. and S.S. Anderson. 2000. Epibenthic sled samples from the Campbell River estuary, 1997. Can. Data Rep. Fish. Aquat. Sci. 1064: 69 p.
- Bureau, D., A. Campbell, and W.C. Hajas. 2000. Survey of red sea urchin populations in the Kelsey Bay, area, Johnstone Strait, British Columbia, 1999. Can. Manuscr. Rep. Fish. Aquat. Sci. 2542: 19 p.
- Bureau, D., A. Campbell, and W.C. Hajas. 2000. Survey of red sea urchin populations near Comox, Denman Island and Hornby Island, British Columbia, 1999. Can. Manuscr. Rep. Fish. Aquat. Sci. 2546: 17 p.
- Bureau, D., A. Campbell, and W.C. Hajas. 2000. Survey of red sea urchin populations near in the Larsen Harbour and Kingkown Inlet areas, Banks Island, British Columbia, 1997. Can. Manuscr. Rep. Fish. Aquat. Sci. 2551: 19 p.
- Bureau, D., A. Campbell, W.C. Hajas, and C.A. Ayers. 2000. Survey of red sea urchin populations in the Gulf Islands, Strait of Georgia, British Columbia, 1998 and 1999. Can. Manuscr. Rep. Fish. Aquat. Sci. 2552: 29 p.
- Campagna, S., G.E. Gillespie, and W. Shaw. 2000. Review of the 1997 and 1998 pilot commercial fisheries for neon flying squid (*Ommastrephes bartrami*) off the west coast of Canada. Can. Ind. Rep. Fish. Aquat. Sci. 256: 74 p.
- Campbell, A., D. Brouwer, J. Rogers, and D.C. Miller. 2000. Abalone resurvey in south east Queen Charlotte Islands, 1998. Can. Manuscr. Rep. Fish. Aquat. Sci. 2528: 30 p.
- Campbell, A., D. Bureau, and D. Brouwer. 2000. Quota estimates for the 1998 red sea urchin fishery in British Columbia. Can. Manuscr. Rep. Fish. Aquat. Sci. 2516: 31 p.
- Carter, E.W. and D.A. Nagtegaal. 2000. Adult chinook escapement assessment conducted on the Nanaimo River during 1998. Can. Manuscr. Rep. Fish. Aquat. Sci. 2527: 29 p.

- Clarke, W.C. 2000. In Memoriam - William Alexander (Bill) Kennedy 1915-1998. Can. J. Fish. Aquat. Sci. 57: 873-874.
- Crean, P.B. and A.B. Ages. 2000. Profiles of salinities, temperatures and oxygens in the Strait of Georgia and Howe Sound, January 1969. Can. Tech. Rep. Hydrogr. Ocean Sci. 204: 22 p.
- Cripps, K.E. and A. Campbell. 2000. Distribution and biomass of the red sea cucumber, *Parastichopus californicus* (Stimpson), found in inlets of north British Columbia. Can. Tech. Rep. Fish. Aquat. Sci. 2300: 14 p.
- Cronkite, G.M.W., Y. Xie, and A.P. Gray. 2000. Active tracking study of salmon migration at Mission, British Columbia. Can. Manuscr. Rep. Fish. Aquat. Sci. 2506: 47 p.
- Devlin, R.H. 2000. Difficulties in ecological risk assessment of transgenic and domesticated fish. Workshop on "Aquaculture and the Protection of Wild Salmon". Simon Fraser University, March 2-3, 2000. 12 p.
- Donaldson, E.M. 2000. Book reviews Cloning in fish - nucleocytoplasmic hybrids. Aquaculture 183: 190-191.
- Enzenhofer, J.H. and G. Cronkite. 2000. Fixed location hydroacoustic estimation of fish migration in the riverine environment: An operational manual. Can. Tech. Rep. Fish. Aquat. Sci. 2312: 46 p.
- Farwell, M.K., R.E. Bailey, and J.S. Baxter. 2000. Enumeration of the 1996 Nicola River chinook salmon escapement. Can. Manuscr. Rep. Fish. Aquat. Sci. 2525: 44 p.
- Farwell, M.K., R.E. Bailey, and B.P. Whitehead. 2000. Enumeration of the 1997 Harrison River chinook salmon escapement. Can. Manuscr. Rep. Fish. Aquat. Sci. 2505: 38 p.
- Farwell, M.K., R.E. Diewert, L.W. Kalnin, J.R. Irvine, R. Semple, and L.C. Walthers. 2000. A coded wire tag assessment of Salmon River (Langley) coho salmon: 1994 tag application and 1995-1996 spawner enumeration. Can. Manuscr. Rep. Fish. Aquat. Sci. 2524: 38 p.
- Farwell, M.K., R.E. Diewert, L.W. Kalnin, R. Semple, L.C. Walthers, and J.R. Irvine. 2000. A coded wire tag assessment of Salmon River (Langley) coho salmon: 1993 tag application and 1994-1995 spawner enumeration. Can. Manuscr. Rep. Fish. Aquat. Sci. 2523: 38 p.
- Gazey, W.J. and K.K. English. 2000. Assessment of sockeye and pink salmon stocks in the northern boundary area using run reconstruction techniques, 1982-95. Can. Tech. Rep. Fish. Aquat. Sci. 2320: 132 p.
- Gillespie, G.E. and N.F. Bourne. 2000. Exploratory intertidal clam surveys in British Columbia - 1998. Can. Manuscr. Rep. Fish. Aquat. Sci. 2508: 98 p.
- Hamer, L. and J. Hepples. 2000. A review of 1999/2000 British Columbia herring fisheries. Can. Ind. Rep. Fish. Aquat. Sci. 254: 51 p.

- Hand, C.M. and G. Dovey. 2000. A survey of geoduck populations in the Griffith Harbour area, North Banks Island, in August 1995. *Can. Manuscr. Rep. Fish. Aquat. Sci.* 2541: 20 p.
- Higgs, D.A., M. Rowshandeli, M. Greig, D.P. Barnes, and J.S. Macdonald. 2000. Changes in the levels of proximate constituents and gross energy in the muscle (fillet) of 4-year-old Stuart sockeye salmon (*Oncorhynchus nerka*) during the 1997 upstream Fraser River spawning migration, p. 91-103. *In*: J.S. Macdonald (Editor). *Mortality During The Migration of Fraser River Sockeye Salmon: A Study of the Effect of Ocean and River Environmental Conditions in 1997*. *Can. Tech. Rep. Fish. Aquat. Sci.* 2315.
- Hop Wo, L., C.H.P. McConnell, and A. Ryan. 2000. Johnstone Strait, Strait of Georgia and Juan de Fuca Strait sockeye and pink test fishing data for 1986-2000. *Can. Data Rep. Fish. Aquat. Sci.* 1066: 209 p.
- Houtman, R. and T.E. Cone. 2000. Estimation of the 1995 Horsefly River system sockeye salmon (*Oncorhynchus nerka*) escapement. *Can. Manuscr. Rep. Fish. Aquat. Sci.* 2535: 45 p.
- Houtman, R. and B.P. Fanos. 2000. Estimation of the 1995 late run sockeye salmon (*Oncorhynchus nerka*) escapement to the Adams River study area. *Can. Manuscr. Rep. Fish. Aquat. Sci.* 2533: 73 p.
- Houtman, R. and N.D. Schubert. 2000. Estimation of the 1995 Seymour River sockeye salmon (*Oncorhynchus nerka*) escapement. *Can. Manuscr. Rep. Fish. Aquat. Sci.* 2536: 41 p.
- Houtman, R., J.A. Tadey, and N.D. Schubert. 2000. Estimation of the 1995 Birkenhead River sockeye salmon (*Oncorhynchus nerka*) escapement. *Can. Manuscr. Rep. Fish. Aquat. Sci.* 2534: 39 p.
- Hume, J.M.B. and S.G. MacLellan. 2000. An assessment of the juvenile sockeye salmon (*Oncorhynchus nerka*) populations of Babine Lake. *Can. Tech. Rep. Fish. Aquat. Sci.* 2327: 37 p.
- Ikonomou, M.G., T. He, M. Fischer, and D. Faubert. 2000. Quantitative determination of polybrominated flame retardants in environmental samples by GC/HRMS with MAB versus EI ionization, p. 786-787. *In* ASMS Conference on Mass Spectrometry and Allied Topics, Long Beach, California, June 11-15, 2000.
- Irvine, J.R., M.K. Farwell, A.E. Tisdale, and L.C. Walthers. 2000. Coho spawning escapements to Louis and Lemieux creeks (North Thompson River), 1995 to 1998. *Can. Manuscr. Rep. Fish. Aquat. Sci.* 2521: 76 p.
- Jensen, J. 2000. IncubWin: A new windows 95/98/NT computer program for predicting embryonic stages in Pacific salmon and Steelhead trout. *Aquacult. Update* 87: 3 p.
- Levings, C.D. 2000. Critical environmental information for management plans in Pacific estuaries, p. 337-343. *In* PACON 99 Proceedings. Symposium on Humanity and the World Ocean: Interdependence at the Dawn of the New Millennium, June 23-25, 1999. The Russian Academy of Sciences, Moscow, Russia. PACON International, Honolulu, Hawaii, U.S.A.

- Lucas, B.G., D. Brouwer, and A. Campbell. 2000. Survey of northern abalone, *Haliotis kamtschatkana*, populations at Malcolm Island and Cormorant Island, British Columbia, October 1999. Can. Manuscr. Rep. Fish. Aquat. Sci.: 2520: 10 p.
- Lucas, B.G., A. Campbell, and D. Brouwer. 2000. Survey of northern abalone, *Haliotis kamtschatkana*, populations in Lotbinière Bay, British Columbia, March 2000. Can. Manuscr. Rep. Fish. Aquat. Sci. 2545: 10 p.
- Macdonald, J.S. 2000. Mortality during the migration of Fraser River sockeye salmon (*Oncorhynchus nerka*): a study of the effect of ocean and river environmental conditions in 1997. Can. Tech. Rep. Fish. Aquat. Sci. 2315: 120 p.
- Macdonald, J.S., M.G.G. Foreman, T. Farrell, I.V. Williams, J. Grout, A. Cass, J.C. Woodey, H. Enzenhofer, W.C. Clarke, R. Houtman, E.M. Donaldson, and D. Barnes. 2000. The influence of extreme water temperatures on migrating Fraser River sockeye salmon (*Oncorhynchus nerka*) during the 1998 spawning season. Can. Tech. Rep. Fish. Aquat. Sci. 2326: 117 p.
- Midgley, P. and J. Schweigert. 2000. Summary of British Columbia herring biological sampling data for the 1999-2000 season. Can. Data Rep. Fish. Aquat. Sci. 1068: 99 p.
- Moodie, S., J.A. Grout, and A. von Finster. 2000. Juvenile chinook salmon (*Oncorhynchus tshawytscha*) utilization of Croucher Creek, a small non-natal tributary of the upper Yukon River during 1993. Can. Manuscr. Rep. Fish. Aquat. Sci. 2531: 66 p.
- Nagtegaal, D.A. and E.W. Carter. 2000. Results of rotary auger trap sampling in the Nanaimo River, 1999. Can. Manuscr. Rep. Fish. Aquat. Sci. 2502: 24 p.
- Nagtegaal, D.A. and E.W. Carter. 2000. A preliminary report on juvenile chinook production in the Cowichan River, 1999. Can. Manuscr. Rep. Fish. Aquat. Sci. 2504: 38 p.
- Nagtegaal, D.A. and E.W. Carter. 2000. Adult chinook escapement assessment conducted on the Cowichan River during 1999. Can. Manuscr. Rep. Fish. Aquat. Sci. 2544: 59 p.
- Noakes, D.J., and T.D. Beacham. 2000. A summary of genetic stock identification research conducted at the Pacific Biological Station, Canada. NPAFC Doc. 494: 18 p.
- O'Brien, M.C., M. Soon, B. Nielsen, C. Elliot, T. Juhasz, R.W. Macdonald, K.L. Denman, R.E. Thomson, and S.E. Calvert. 2000. Sediment trap data from the Strait of Georgia, May, 1995, to January, 1999. Can. Data Rep. Hydrogr. Ocean Sci. 155: 92 p.
- Palermo, V. and A.S. Thompson. 2000. Angler effort and catch in the 1998 sport fisheries of the Capilano and Squamish rivers. Can. Manuscr. Rep. Fish. Aquat. Sci. 2529: 29 p.
- Palermo, V. and A.S. Thompson. 2000. Angler effort and catch in the 1998 sport fisheries of five lower Fraser River tributaries. Can. Manuscr. Rep. Fish. Aquat. Sci. 2530: 55 p.

- Piercey, G.E., C.D. Levings, M. Elfert, M. Galbraith, and R. Waters. 2000. Invertebrate fauna in ballast water collected in vessels arriving in British Columbia ports, especially those from the western North Pacific. *Can. Data Rep. Fish. Aquat. Sci.* 1060: 50 p.
- Ross, P.S., J.G. Vos, L.S. Birnbaum, and A.D.M.E. Osterhaus. 2000. PCBs are a health risk for humans and wildlife. *Science Magazine* 289: 1878-1879
- Schubert, N.D. 2000. The 1994 Stellako River sockeye (*Oncorhynchus nerka*) escapement: evaluation of pooled Petersen and stratified mark-recapture estimates of a known population. *Can. Tech. Rep. Fish. Aquat. Sci.* 2303: 56 p.
- Schweigert, J. and L. Flostrand. 2000. Pacific herring coded wire tagging study: 1999 releases recovered in 2000. *Can. Tech. Rep. Fish. Aquat. Sci.* 2335: 33 p.
- Shortreed, K.S. and K.F. Morton. 2000. An assessment of the limnological status and productive capacity of Babine Lake, 25 years after the inception of the Babine Lake development project. *Can. Tech. Rep. Fish. Aquat. Sci.* 2316: 52 p.
- Sturhahn, J.C., D.A. Nagtegaal, and M. Trenholme. 2000. Abundance, age, sex and coded-wire tag recoveries for chinook salmon escapements of Campbell and Quinsam rivers, 1998. *Can. Manuscr. Rep. Fish. Aquat. Sci.* 2519: 49 p.
- Varela, D.E., K.L. Barry, M Guo, G.E. Piercey, N.M. Mehlenbacher, P.J. Harrison, and C.D. Levings. 2000. Water quality and oceanographic data near a deep water outfall discharging acid mine drainage from Britannia Mine into Howe Sound, British Columbia. *Can. Data Rep. Fish. Aquat. Sci.* 1063: 43 p.
- Welch, D.W. and S.D. Batten. 2000. Climate change, global warming and the PICES mandate - The need for improved monitoring. *PICES Press* 8: 24-27.
- Williamson, C.J., C.D. Levings, J.S. Macdonald, E. White, K. Kopeck, and T. Pendray. 2000. A preliminary assessment of wood debris at four log dumps on Douglas Channel, British Columbia: Comparison of techniques. *Can. Manuscr. Rep. Fish. Aquat. Sci.* 2539: 75 p.
- Wyeth, M.R., R.D. Stanley, R. Kieser, and K. Cooke. 2000. Use and calibration of a quantitative acoustic system on a commercial fishing vessel. *Can. Tech. Rep. Fish. Aquat. Sci.* 2324: 46 p.
- Yunker, M.B., R.W. Macdonald, R. Brewer, S. Sylvestre, T. Tuominen, M. Sekela, R.H. Mitchell, D.W. Paton, B.R. Fowler, C. Gray, D. Goyette, and D. Sullivan. 2000. Assessment of natural and anthropogenic hydrocarbon inputs using PAHs as tracers. The Fraser River Basin and Strait of Georgia 1987-1997, 128 p. *In: Fraser River Action Plan/Burrard Inlet Environmental Action Program*, Environment Canada, Vancouver, BC.

Research Documents 2000/Documents de recherche 2000

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- Addison, R.F. and P.S. Ross. 2000. Persistent organic pollutants (POPs) in British Columbia harbour seals and killer whales. *Can. Stock Assess. Res. Doc.* 2000/171: 25p.
- Bailey, R.E., C.K. Parken, J.R. Irvine, B. Rosenberger, and M.K. Farwell. 2000. Evaluation of utility of aerial overflight based estimates versus mark-recapture estimates of chinook salmon escapement to the Nicola River, B.C. *Can. Stock Assess. Res. Doc.* 2000/152: 35p.
- Beacham, T.D., J. Bratney, K.M. Miller, K.D. Le, A.D. Schulze, and R.E. Withler. 2000. Population structure of Atlantic cod (*Gadus morhua*) in the Newfoundland and Labrador area determined from genetic variation. *Can. Stock Assess. Res. Doc.* 2000/099: 27p.
- Beacham, T.D., R.S. Gregory, and J. Bratney. 2000. Origins of two recruitment pulses of 0-group Atlantic cod (*Gadus morhua*) in Bonavista Bay, Newfoundland during 1999, determined from genetic variation. *Can. Stock Assess. Res. Doc.* 2000/93: 10p.
- Campbell, A., B. Lucas, and G. Parker. 2000. Discussion on an experimental approach for Northern abalone stock rebuilding in British Columbia. *Can. Stock Assess. Res. Doc.* 2000/047: 24p.
- Cass, A. 2000. Pre-season run size forecasts for Fraser River sockeye in 2000. *Can. Stock Assess. Res. Doc.* 2000/107: 17p.
- Cass, A., J.T. Schnute, L.J. Richards and A. Macdonald. 2000. Stock status of Fraser River sockeye. *Can. Stock Assess. Res. Doc.* 2000/068: 52p.
- Dobson, D., K. Simpson, J. Till, S. Lehman, R. Ferguson, P. Tschaplinski, and S. Baillie. 2000. Status in 1999 of coho stocks on the West Coast of Vancouver Island. *Can. Stock Assess. Res. Doc.* 2000/160: 59p.
- Fargo, J., A.R. Kronlund, J.T. Schnute and R. Haigh. 2000. Stock assessment of Rock sole and English sole in Hecate Strait for 2000/2001. *Can. Stock Assess. Res. Doc.* 2000/166: 83p.
- Gazey, W.J. and R.V. Palermo. 2000. A preliminary review of a new model based on test fishing data analysis to measure abundance of returning chum stocks to the Fraser River. *Can. Stock Assess. Res. Doc.* 2000/159: 30p.
- Gillespie, G.E. 2000. Preliminary review of experimental harvest rates in the depuration fishery for intertidal clams. *Can. Stock Assess. Res. Doc.* 2000/122: 57p.
- Haist, V. and R. Hilborn. 2000. Sablefish stock assessment for 2000 and recommended yield options for 2001. *Can. Stock Assess. Res. Doc.* 2000/157: 74p.
- Hand, C.M. and D. Bureau. 2000. Quota options for the geoduck clam (*Panopea abrupta*) fishery in British Columbia for 2001 and 2002. *Can. Stock Assess. Res. Doc.* 2000/163: 53p.
- Hay, D. and P.B. McCarter. 2000. Status of the eulachon *Thaleichthys pacificus* in Canada. *Can. Stock Assess. Res. Doc.* 2000/145: 92p.

- Holtby, B. 2000. In-season indicators of run-strength and survival for northern British Columbia coho. Can. Stock Assess. Res. Doc: 2000/153: 46p.
- Holtby, B., B. Finnegan, and B. Spilsted. 2000. Forecast for northern British Columbia coho salmon in 2000. Can. Stock Assess. Res. Doc. 2000/128: 74p.
- Holtby, L.B., K. Simpson, R.W. Tanasichuk, and J.R. Irvine. 2000. Forecast for southern British Columbia coho salmon in 2000. Can. Stock Assess. Res. Doc. 2000/127: 43p.
- Hyatt, K., W. Luedke, J. Till, P. Rankin, and D. Lewis. 2000. Review of the 1999 return of Barkley Sound sockeye salmon and forecasts for 2000. Can. Stock Assess. Res. Doc. 2000/174: 28p.
- Irvine, J.R., R.E. Withler, M.J. Bradford, R.E. Bailey, S. Lehmann, K. Wilson, J. Candy, and W.S. Shaw. 2000. Stock status and genetics of coho salmon from the interior Fraser River. Can. Stock Assess. Res. Doc 2000/125: 49p.
- Jamieson, G.S. and L. Chew. 2000. Cumulative effects assessments: an evaluation of DFO science research options. Can. Stock Assess. Res. Doc. 2000/105: 37p.
- Johnston, N.T., E.A. Parkinson, A.F. Tautz, and B.R. Ward. 2000. Biological reference points for the conservation and management of steelhead, *Oncorhynchus mykiss*. Can. Stock Assess. Res. Doc. 2000/126: 96p.
- King, J.R. and A.M. Surry. 2000. Lingcod stock assessment and recommended yield options for 2001. Can. Stock Assess. Res. Doc. 2000/164: 50p.
- Kruzynski, G.M. 2000. Cadmium in BC farmed oysters: A review of available data, potential sources, research needs and possible mitigation strategies. Can. Stock Assess. Res. Doc. 2000/104: 37p.
- Lauzier, R.B., S. Campagna and R. Hinder. 2000. Framework for pink (*Chlamys rubida*) and spiny (*C. hastata*) scallop fisheries in waters off the West Coast of Canada. Can. Stock Assess. Res. Doc. 2000/123: 37p.
- Martell, S., J. Boutillier, H. Nguyen and C. Walters. 2000. Reconstructing the offshore *Pandalus jordani* trawl fishery off the West Coast of Vancouver Island and simulating alternative management policies. Can. Stock Assess. Res. Doc. 2000/149: 38p.
- Nagtegaal, D.A., B. Riddell, S. Lehmann, D. Ewart and B. Adkins. 2000. Assessment of Campbell/Quinsam chinook salmon (*Oncorhynchus tshawytscha*). Can. Stock Assess. Res. Doc. 2000/151: 64p.
- Olsen, N., J.A. Boutillier, and L. Convey. 2000. Estimated bycatch in the British Columbia shrimp trawl fishery. Can. Stock Assess. Res. Doc. 2000/168: 54p.
- Orensanz, J.M., R. Hilborn, and A.M. Parma. 2000. Harvesting Methuselah's clams – Is the geoduck fishery sustainable or just apparently so? Can. Stock Assess. Res. Doc. 2000/175: 68p.

- Riddell, B., W. Luedke, J. Till, and R. Ferguson. 2000. Review of 1999 terminal run of Somass (Stamp) River chinook salmon and 1999 escapement to WCVI extensively surveyed indicators, and forecast for 2000. *Can. Stock Assess. Res. Doc.* 2000/113: 37p.
- Rutherford, D. and C. Wood. 2000. Trends in abundance and pre-season 2000 stock size forecasts for major sockeye, pink and chum salmon stocks in the central coast and selected salmon stocks in Northern British Columbia. *Can. Stock Assess. Res. Doc.* 2000/114: 57p.
- Rutherford, D. and C. Wood. 2000. Assessment of Rivers and Smith Inlet sockeye salmon with commentary on small sockeye salmon stocks in Statistical Area 8. *Can. Stock Assess. Res. Doc.* 2000/162: 57p.
- Schnute, J.T. and R. Haigh. 2000. Estimating stock biomass from tow-by-tow data for Pacific groundfish. *Can. Stock Assess. Res. Doc.* 2000/155: 32p.
- Schweigert, J. 2000. Stock assessment for British Columbia herring in 2000 and forecasts of the potential catch in 2001. *Can. Stock Assess. Res. Doc.* 2000/165: 74p.
- Simpson, K., R. Semple, D. Dobson, J. Irvine, S. Lehmann, and S. Baillie. 2000. Status in 1999 of coho stocks adjacent to the Strait of Georgia. *Can. Stock Assess. Res. Doc.* 2000/158: 87p.
- Sinclair, A.F. 2000. Assessment of Pacific cod in Hecate Strait, Nov. 2000. *Can. Stock Assess. Res. Doc.* 2000/170: 53p.
- Stanley, R.D. and A.R. Kronlund. 2000. Silvergray rockfish (*Sebastes brevispinis*) assessment for 2000 and recommended yield options for 2001/2002. *Can. Stock Assess. Res. Doc.* 2000/173: 116p.
- Starr, P.J. and R. Haigh. 2000. Assessment of the Canadian longspine thornyhead (*Sebastolobus altivelis*) for 2000. *Can. Stock Assess. Res. Doc.* 2000/154: 66p.
- Starr, P.J. and C. Schwarz. 2000. Feasibility of a bottom trawl survey for three slope groundfish species in Canadian waters. *Can. Stock Assess. Res. Doc.* 2000/156: 42p.
- Tanasichuk, R.W. 2000. Offshore herring biology and 2001 recruitment forecast for the West Coast Vancouver Island stock assessment region. *Can. Stock Assess. Res. Doc.* 2000/146: 29p.
- Ware, D.M., C. Tovey, D. Hay and B. McCarter. 2000. Straying rates and stock structure of British Columbia herring. *Can. Stock Assess. Res. Doc.* 2000/006: 29p.
- Workman, G.D., A.C. Phillips, F.E. Scurrah, and J.A. Boutillier. 2000. Development of a fishery for Tanner crab (*Chionoecetes tanneri*) off the Coast of British Columbia. *Can. Stock Assess. Res. Doc.* 2000/169: 71p.
- Yamanaka, K.L., R.E. Withler, and K.M. Miller. 2000. Structure of Yelloweye rockfish (*Sebastes ruberrimus*) populations in British Columbia. *Can. Stock Assess. Res. Doc.* 2000/172: 32p.

Zhang, Z. and A. Campbell. 2000. Evaluation of Horse Clam stock dynamics for a directed subtidal horse clam (*Tresus capax* and *Tresus nuttallii*) fishery in British Columbia. Can. Stock Assess. Res. Doc. 2000/167: 54p.

