

Projects

Presented below is a list of the projects and individual investigations undertaken by the Department of Fisheries and Oceans' laboratories in the Maritimes Region, by the Geological Survey of Canada, (Atlantic), of Natural Resources Canada, and by Environment Canada units at BIO during the review period.

For more information on these projects, many of which are continuing, please write to: Regional Director of Science, Maritimes Region, Department of Fisheries and Oceans, Bedford Institute of Oceanography, P.O. Box 1006, Dartmouth, N.S., B2Y 4A2

FISHERIES AND OCEANS MARITIMES REGION

MARINE ENVIRONMENTAL SCIENCES DIVISION

A. ENVIRONMENTAL ASSESSMENT SECTION

1. Marine Emergencies
J.M. Bowers
2. Canadian Marine Analytical Chemistry Standards Program
J.M. Bowers
3. International Activities
J.M. Bowers
4. Regional Assessment - Inshore Areas of the Scotia-Fundy Region
J.M. Bowers
5. Identification of Synthetic Organic Chemicals in Commercial Species from Municipal and Industrial Harbours and Rivers
J.M. Bowers
6. Provision of Advice on Toxic Chemical Issues
J.M. Bowers
7. Development of Public Relations Video on the Health of the Marine Environment
J.M. Bowers
8. Environmental Assessments/Aquatic Environmental Science Section Management
D.R. Alexander
9. Marine Assessment and Liaison/ Science Applications
H.B. Nicholls

B. ENVIRONMENTAL SCIENCES SECTION

1. Environmental Advice
V.E. Zitko
2. Harmful Algal Marine Research
J.L. Martin
3. Risk Assessment of Organic Chemicals to Fisheries
V.E. Zitko
4. Biochemical Indicators of Health of Aquatic Animals
K. Haya
5. Aquatic Toxicology of Marine

- Phytotoxins
K. Haya
6. Aquaculture Ecology Research
D.J. Wildish
7. Effects of Changes in Coastal and Marine Environments on Atlantic Salmon
G.L. Lacroix
8. Monitoring Marine Biodiversity
D.J. Wildish
9. Biochemical Indicators of Health of Aquatic Animals
K. Haya
10. Aquaculture Ecology Research
D.J. Wildish
11. Acid Rain Research and Modelling
G.L. Lacroix

C. HABITAT ECOLOGY SECTION

1. Section Administration and Management
P.D. Keizer
2. Organochlorines in Arctic Ocean Marine Food Webs
B.T. Hargrave
3. Fish Habitat Assessment Advice
D.C. Gordon
4. Microbial Ecology
J.E. Stewart
5. Microbial-Marine Toxin Interactions
J.E. Stewart
6. Physiological Ecology of Toxic Algae
S.R.V. Durvasula
7. Coastal Phytoplankton Dynamics
P.D. Keizer
8. Biological-Physical Interactions in Coastal Habitats
K.H. Mann
9. Sedimentology of Coastal Habitats
T.G. Milligan
10. Scallop Habitat Research
P.J. Cranford
11. Coastal Habitat Studies
G.C. Harding
12. Benthic Habitat Studies
T.W. Rowell
13. Environmental Interactions with Aquaculture

- P.D. Keizer*
 14. Bioenergetics of Marine Mammals
P.F. Brodie
 15. Size-Dependent, Bioenergetic Processes in Fish Habitat
S.R. Kerr
 16. Habitat Mapping
P.R. Boudreau
 17. Evaluation of Estuarine and Continental Shelf Habitats
W.L. Silvert
 18. Contaminant Fluxes in Marine Benthic Food Webs
B.T. Hargrave
 19. Instrumentation Support
W.P. Vass
- #### D. MARINE CHEMISTRY SECTION
1. Climate Variability Recorded in Marine Sediments
J.N. Smith
 2. Distribution of Sea Ice Meltwater in the Arctic
F.C. Tan
 3. Oxygen Isotopes and Mixing on the Scotian Shelf
P.M. Strain
 4. Point Lepreau Environmental Monitoring Program
J.N. Smith
 5. Contaminant Cycling in Estuarine Waters
J.H. Vandermeulen
 6. Black Carbon Particles
R. Pocklington
 7. A Critical Evaluation of "Greenhouse Warming" and the Part Played in it by Emissions from Fossil Fuel Combustion
R. Pocklington
 8. Fish Aging from ²¹⁰Pb/²²⁶Ra Measurements in Otoliths
J.N. Smith
 9. Growth Rates of the Sea Scallop (*Placochelone magellanicus*) using the Oxygen Isotope Record
F.C. Tan
 10. Sediment Geochronology and

- Geochemistry in the Saguenay Fjord
J.N. Smith
11. Trace Metal Geochemistry in Estuarine Mixing Zones
P.A. Yeats
 12. Radionuclide Measurements in the Arctic
J.N. Smith
 13. Carbon Isotope Studies on Particulate and Dissolved Organic Carbon in Deep Sea and Coastal Environments
F.C. Tan
 14. Trace Metal Transport into the Western North Atlantic
P.A. Yeats
 15. Chemical Reactivity in the Surface Ocean
P.M. Strain
 16. Composition and Reaction of Marine Colloidal Matter
S.E.H. Niven
 17. Nutrient Dynamics in Ship Harbour, N.S.
P.M. Strain
 18. Heavy Metal Contamination of Sediments and Suspended Matter on the Greenland Shelf
D.H. Loring
 19. Risk Assessment of Toxic Chemicals
J.F. Uthe
 20. Sub-lethal Contaminants: Long-Term Fate and Effects of Petroleum Hydrocarbon Pollution in Aquatic Systems
J.H. Vandermeulen
 21. Investigations into Amino Acid Shellfish Toxins
R. Pocklington
 22. Contaminants in Municipal Harbour Lobster Fisheries
J.F. Uthe
 23. Contaminants in Sports Fisheries
J.F. Uthe
 24. Endocrinological Sublethal Tests
J.F. Uthe
 25. Sources, Distribution and Fate of Metallic Contaminants in Atlantic Estuarine and Harbour Sediments
D.H. Loring
 26. Modelling of Distributions of Toxic Chemicals in Harbours and Estuaries
P.A. Yeats
 27. Factors Affecting the Concentrations of Toxic Chemicals in Lobsters
C.L. Chou
 28. Historical Record of Contaminant Fluxes in Marine Sediments
J.N. Smith
 29. Contaminant Trends in Selected Commercial Fisheries: Gulf of St. Lawrence Cod Study
J.F. Uthe
 30. Assessment of Input Functions for Toxic Chemicals in Scotia-Fundy Region
P.A. Yeats
 31. Application of Biochemical Sublethal Tests for Detecting Pollution-Induced Effects in Commercial Atlantic Fish
D.E. Willis
 32. Toxic Chemical Regional Data Management System
P.M. Strain
 33. Measurements of Radioactive Contaminants in the Arctic Ocean
J.N. Smith.
 34. Assessment and Restoration of Fish Habitat Polluted by Toxic Chemicals
W.L. Fairchild
 35. Monitoring of Toxic Chemical Trends in Selected Sites of South eastern Gulf of St. Lawrence
W.L. Fairchild
 36. Assessment of the Status of the Gulf Region Coastline with Regard to Toxic Contaminants
W.L. Fairchild
 37. Levels of Contamination in Native, Subsistence and Recreational Fisheries Resources
W.L. Fairchild
 38. Contamination Levels in Commercial Fish and Their Habitat by Pesticides and Agricultural Chemicals
W.L. Fairchild
- MARINE FISH DIVISION 1994**
- A-BASE PROJECTS**
1. 4TVW Haddock Assessment and Associated Research
Zwanenburg
 2. 4X Haddock Assessment and Associated Research
Hurley
 3. 4Vn Cod Assessment and Associated Research
Lambert
 4. 4VsW Cod Assessment and Associated Research
Mohn
5. Silver Hake Assessment and Associated Research
Showell
 6. Redfish Assessment and Associated Research
Branton
 7. Flatfish Assessment and Associated Research
Annand
 8. Continental Shelf Margin Studies and Argentine Assessment
Halliday
 9. Population Ecology of Sealworm
McClelland
 10. Seal Diet and Energetics Research
Bowen
 11. Seal Population Dynamics Research
Stobo
 12. Seal Research Infrastructure
Bowen
 13. Groundfish Management Research
Halliday
 14. National Sampling Program
Zwanenburg
 15. International Observer Program
Showell
 16. 4VsW Cod Trawl Surveys
Mohn
 17. Groundfish Age & Maturity Determinations
Annand
 18. Fisheries Recruitment Variability
Frank
 19. Otolith Studies
Campana
 20. Finfish Tagging Studies
Stobo
 21. Shark Assessment and Associated Research
Hurley
 22. Oceanographic Data Handling
McRuer
 23. EDP Support
Branton
 24. Survey Design and Biometrical Research
Smith
 25. Cooperative Science-Industry Research and Communications
O'Boyle
 26. Stock Structure Studies
Zwanenburg
- B-BASE (AFAP) PROJECTS**
1. Seal/Sealworm Ecology - Diet/Parasite/Population Monitoring Studies

- Bowen / Stobo*
2. Toxic Chemicals
Stobo
- 1995**
- A-BASE PROJECTS**
1. 4TVW Haddock Assess. and Associated Res. & Sentinel Fisheries
Zwanenburg
 2. 4X Haddock Assessment and Associated Research
Hurley
 3. 4Vn Cod Assess. and Associated Res. & Sentinel Fisheries
Lambert
 4. 4VsW Cod Assessment and Associated Research
Fanning
 5. Silver Hake Assessment and Associated Research
Showell
 6. Developing Fisheries Assessment and Associated Research
O'Boyle
 7. Redfish Assessment and Associated Research
Branton
 8. Flatfish Assess. and Associated Res. & Monkfish Industry Project
Annand
 9. Continental Shelf Margin Studies and Argentine Assessment
Halliday
 10. Seal Diet and Energetics Research
Bowen
 11. Seal Population Dynamics Research
Stobo
 12. Seal Research Infrastructure
Bowen
 13. Grey Seal Female Contraception
Bowen
 14. Groundfish Management Research
Halliday
 15. Stock Assessment Methods
Mohn
 16. National Sampling Program
Zwanenburg
 17. Groundfish Statistics
Fanning
 18. International Observer Program
Showell
 19. 4VsW Cod Spring Trawl Surveys
Fanning
 20. Groundfish Age & Maturity Determinations
Annand
 21. Fisheries Recruitment Variability
- Frank*
22. Otolith Studies
Campana
 23. Finfish Tagging Studies
Stobo
 24. Ecosystem Processes
O'Boyle
 25. Shark Assessment and Associated Research
Hurley
 26. Oceanographic Data Handling
McRuer
 27. Survey Design and Biometrical Research
Smith
 28. Science Communications
O'Boyle
 29. Stock Structure Studies
Zwanenburg
- B-BASE**
1. Green Plan Toxic Chemicals Project -Studies of the Oceanochloride Residues in the Blubber of Atlantic Grey and Harbour Seals
Stobo (Inst. Of Ocean Coast Sciences)
 2. Identification of Mixed Cod Stocks in the Gulf of St. Lawrence
Campana
 3. Seal-Fish Interactions
O'Boyle
 4. Redfish High Priority Project
Branton
 5. National Hydroacoustic Program: Survey Design Project
Smith
- St. ANDREWS BIOLOGICAL STATION**
- PELAGICS AND GROUND FISH**
- 1994**
1. Herring Assessment and Associated Research (Subarea 4)
Stephenson
 2. Herring Assessment and Associated Research (Subarea 5)
Melvin
 3. Large Pelagics Assessment and Associated Research
Porter
 4. Pelagic Acoustics Survey
Buerkle
 5. 5Ze Haddock Assessment and Associated Research
Gavaris
 6. 4X Cod Assessment and Associated
- Research
Trippel/Gavaris
7. 5Z Cod Assessment and Associated Research
Hunt
 8. Pollock Assessment and Associated Research
Neilson/Trippel
 9. Groundfish Trawl Surveys
Hunt
 10. Groundfish Age Determination
Hunt
 11. Winter Flounder Assessment and Associated Research
Page
 12. Oceanography and Fish Distribution
Page
 13. Oceanographic Data Handling (ODH)
Page/McRuer
 14. Herring Biological Studies
Iles
 15. Groundfish Ecosystems Research Information - Survey Data
Clark
- 1995**
1. Herring Assessment and Associated Research (Subarea 4)
Stephenson
 2. Herring Assessment and Associated Research (Subarea 5)
Melvin
 3. Large Pelagics Assessment and Associated Research
Porter
 4. Fisheries Systems Evaluation
Gavaris/Stephenson
 5. Marine Mammals-Fisheries Interactions
Trippel
 6. Herring Biological Studies
Iles
 7. 5Ze Haddock Assessment and Associated Research
Gavaris
 8. 4X Cod Assessment and Associated Research
Trippel
 9. 5Z Cod Assessment and Associated Research
Hunt
 10. Pollock Assessment and Associated Research
Neilson/Trippel
 11. Groundfish Trawl Surveys
Hunt
 12. Groundfish Age Determination

Hunt

13. Yellowtail Flounder Assessment and Associated Research

Neilson

14. Oceanography and Fish Distribution

Page

15. Oceanographic Data Handling

Page/McRuer

NON-DFO RESEARCH MISSIONS

1. *Lady Sharell*, 8 February - 15 March 1995, off Southwest Nova Scotia;

2. Size selection of longlines for cod and haddock in relation to hook type and size and bait size.

R.G. Halliday

3. *Cape Chidley*, 6-16 November 1994 and 7-15 March 1995 (2 cruises), along Scotian Shelf Slope;

4. Fishery resources survey of continental slope in 900-1800 m using otter trawls

5. Halliday (Scientific Authority), in conjunction with the Atlantic Reference Centre, St. Andrews, N.B., and National Sea Products Ltd., Lunenburg, N.S.

PROJECTS, MONCTON

1994

1. Herring Research Surveys
2. Groundfish Coordination
3. Assessment and Biology of the 4T-Vn Cod Stock
4. Sampling and Surveys
5. White Hake and Understudied Groundfish
6. Fisheries Dynamics and Modelling
7. Flatfish research and assessments
8. Data Compilation

PROJECTS, MONCTON

1995

1. Herring Research Surveys
2. Groundfish Coordination
3. Biology and Assessment of the 4T-Vn Cod Stock
4. Sampling, Surveys and Community Analyses
5. Fisheries Dynamics and Modelling
6. Flatfish research and assessments
7. Statistical Analysis - Fish Species

ENVIRONMENTAL PROTECTION BRANCH

SHELLFISH SECTION

1. Conduct Shellfish Growing Areas classification studies to determine the suitability of harvesting molluscan shellfish (mussels,oysters,clams) based on sanitary surveys and bacteriological water quality in Nova Scotia

J. Young, D.M. Tremblay, C. Craig

2. Conduct Shellfish Growing Areas classification studies to determine the suitability of harvesting molluscan shellfish (mussels,oysters,clams) based on sanitary surveys and bacteriological water quality in New Brunswick

B.J. Richard

**HYDROGRAPHY BRANCH
CANADIAN HYDROGRAPHIC SERVICE (ATLANTIC)**

A. HYDROGRAPHY

1. **Ocean Mapping (Ship Based):** Inner Scotian Shelf near Halifax, Saint John, N.B. Victoria Strait/Strait of Georgia, N.W.T. Ground Truthing Projects Bay of Fundy (UNB)

G. Costello

2. **Revisory and Sweep Surveys (Atlantic Provinces) (Ship Based):** Halifax Harbour, Sydney Harbour and Strait of Canso, N.S.

J. Ferguson

3. **Newfoundland and Labrador Surveys (Ship Based):** Notre Dame Bay, Labrador Coast, Bonavista Bay

C. Stirling

4. **Revisory Surveys (Shore Based):** Saint John River, Evandale to Grand Bay & Reversing Falls, N.B. Charlottetown, P.E.I.

G. Henderson

B. TIDES, CURRENTS AND WATER LEVELS

1. Ongoing Support to CHS Field Surveys and Chart Production

C. O'Reilly, C.P. McGinn, G.B. Lutwick, F. Carmichael

2. Operation of the Permanent Tide and Water Level Gauging Network

C. O'Reilly, C.P. McGinn, G.B. Lutwick, F. Carmichael

3. Review and Update of Tide Tables and Sailing Directions

C. O'Reilly

4. Scientific and Engineering Project Support: Calibration and Maintenance of Portable Gauges

C. NAUTICAL PUBLICATION PRODUCTION

1. **Production of Charts** as follows:

2 New Charts

17 New Editions

156 Electronic Navigational Charts

22 Chart Correction Patches

160 Notices to Mariners

S. Grant, Keith Crawford, A. Hantzis

2. **Sailing Directions**

Publication of Sailing Directions

(Saint John River, Newfoundland -

East and South Coasts (Cape

Bonavista to Ferryland Head)

R. Pietrzak, G. Smith

D. DATA MANAGEMENT

1. **Hydrographic Data Centre** Updates and maintenance of the Source Directory Files Management System

C. Day-Power, S. Nickerson

Interaction with the Validation Unit

C. Day-Power, S. Nickerson

2. **Validation**

E. Crux, D. Nicholson, N. Palmer,

D. Roop

- a. Validation of New Charts

4857 Greenspond Harbour to Pound Cove

4858 Indian Bay to Wadham Islands

- b. Validation of New Editions

4641 Port aux Basques

4118 St. Mary's Bay

- c. Validation of ENC's

76168 Lewisporte

76172 Bay of Exploits, Sheet 5, S.E.

76236 Nortre Dame Bay Orange Bay to Cape Bonavista

- d. Sailing Directions Diagrams

Salvage, Newfoundland

Summerville, Newfoundland

Summerford, Newfoundland

Happy Adventure, Newfoundland

Lumsden, Newfoundland

- e. Validation of Incoming Documents

from Outside Agencies

40 NTM Recommended as a result of

New Document Review

7000 Notices to Shipping and 260 Foreign Notices to Mariners Booklets reviewed 804 Accessions Lists Documents Validated
D. Blaney, F. Burgess, E. Crux, B. MacGowan, S. Nunn, N. Palmer, D. Roop, T. Rowsell

3. Navigation

LORAN-C Chart Latticing
N. Stuijbergen
Navigation - User Support and Training
N. Stuijbergen

4. Database Management Systems & Electronic Charts

Green Plan DBMS and Electronic Chart Research
S. Grant, D. Frizzle, G. MacLeod, C. Day-Power, H. Varma, M. Eaton, H. Boudreau, J. Davison, R. Pietrzak, M. MacDonald, C. Stirling

E. HYDROGRAPHIC DEVELOPMENT

1. Coordination of Research and Development within CHS
R.G. Burke
2. Implementation of Hydrographic Data Processing System
R.G. Burke, S. Forbes
3. ISAH and GPS Implementation
S. Forbes
4. ORACLE MD - Multi-Dimensional Spatial Information Management System
H. Varma
5. Ocean Mapping Initiative for Canada (OMIC)
G. Costello
6. Enhancing Computer-Assisted Chart Production Techniques
S. Forbes, K. White
7. Informatics Support and Coordination
S. Forbes, L. Norton, K. White, M. Ruxton

AQUACULTURE DIVISION - PROJECTS 94 AND 95

MOLLUSCAN DEVELOPMENT SECTION, MONCTON

1. Bivalve pathology
S. McGladdery
2. Mollusc productivity

- T. Landry*
3. Scallop biology
L.-A. Davidson
 4. Finfish Health and Aquaculture
M.I. Campbell

MOLLUSCAN FISHERIES SECTION, HALIFAX

1. Molluscan culture and assessment
K. Freeman
2. Molluscan early life history physiology and ecology and oyster aquaculture
J. Kean-Howie
3. New candidate species research
E. Kenchington

FISH HEALTH AND NUTRITION SECTION, HALIFAX

1. Nutrition - lipid research
J.D. Castell
2. Nutrition - salmonids and disease
S.P. Lall
3. Fish disease and immunology research
G. Olivier
4. Histology and parasitology
C.A. Morrison
5. Fish Health Services Unit
A.-M. MacKinnon
6. Population ecology of sealworm
G. McClelland

APPLIED AQUACULTURE SECTION, ST. ANDREWS

1. Salmonid growth, smolting & reproduction
R.L. Saunders
2. Marine fish culture
K.G. Waiwood
3. Early fish behavior
R.H. Peterson
4. Physiology & production of grow-out stages of aquaculture species
R.H. Peterson
5. Finfish reproduction and broodstock development
D.J. Martin-Robichaud
6. Invertebrate aquaculture research
D.E. Aiken
7. Soft-shell clam fishery ecology and aquaculture
S.M.C. Robinson
8. Scallop aquaculture and enhancement research
S.M.C. Robinson
9. Resource potential of underutilized

- invertebrate species
S.M.C. Robinson, P. Lawton
10. Quoddy Region Bio-physical Interactions
W.M. Watson-Wright, S.M.C. Robinson, F.H. Page
 11. Salmon Genetics Research Program (collaborative project with Atlantic Salmon Federation)
W.M. Watson-Wright
 12. Alternative treatments for sea lice in farmed Atlantic salmon
B.D. Chang, G. McClelland
 13. Transgenic salmon (joint project with A/F Protein Canada, Inc.)
R.L. Saunders
 14. Atlantic Reference Centre (collaborative project with Huntsman Marine Science Centre)
W.M. Watson-Wright

DIADROMOUS FISH DIVISION

1. Habitat enhancement tests.
D. Cairns
2. Morell salmon assessment.
D. Cairns
3. Impoundment limnology.
D. Cairns
4. Bibliography of PEI fresh waters.
D. Cairns
5. Cormorant foraging patterns
D. Cairns
6. Herring spawning bed surveys
D. Cairns
7. Diadromous Fish Stock Assessments, Salmon Enhancement and Associated Research
G. Chaput
8. Quantify habitat use of, and production by, diadromous fishes in Maritimes Region aquatic environments.
R. Cunjak
9. Assess natural environmental fluctuations in, and anthropogenic perturbations to, fish habitat and production.
R. Cunjak
10. Head of Hatchery Operations and Salmonid Enhancement Research, Gulf Region
K. Davidson
11. Salmon hatchery operations and research.
G. Farmer

12. Anadromous Species Statistical Data Collection and Analysis
C. Harvie
13. Fish Culture Engineering Enhancement and Fish Passage Engineering
H. Jansen
14. Non-Salmonid Assessment Research
B. Jessop
15. Stock assessment and associated research on diadromous fishes, northern New Brunswick
A. Locke
16. Salmon Assessment Research SWNB & Cape Breton
L. Marshall
17. Salmon Assessment Research I
R. Cutting
18. Finfish and Invertebrate Introductions and Transfers
R. Cutting
19. Salmon Assessment Research (North and Eastern Shore N.S.)
S. O'Neil
20. Freshwater Habitat Research
W. Watt, W. White

**OCEAN SCIENCES DIVISION
1994**

OCEAN CLIMATE SERVICES

1. Microstructure Studies in the Ocean
N.S. Oakey
2. Investigations of Air-Sea Fluxes of Heat and Momentum on Large Space and Time Scales using Newly Calibrated Bulk Formulae
F.W. Dobson, S.D. Smith
3. Newfoundland Basin Experiment
R.A. Clarke, R.M. Hendry, E.P. Jones
4. Problems in Geophysical Fluid Dynamics
C. Quon
5. Norwegian/Greenland Sea Experiment
R.A. Clarke, E.P. Jones, J. Reid (Scripps), J. Swift (Scripps)
6. Studies of the North Atlantic Current and the Seaward Flow of Labrador Current Waters
J.R.N. Lazier
7. Ship of Opportunity Expendable Bathythermograph Programme for the Study of Heat Storage in the North Atlantic Ocean
F. Dobson
8. Data Management & Archival
D.N. Gregory

9. Eastern Arctic Physical Oceanography
C.K. Ross
10. Seasonal and Interannual Variability in the Gulf of St. Lawrence
G.L. Bugden
11. Tidal and Residual Currents - 3-D Modelling Studies
K.-T. Tee
12. CTD's and Associated Sensors
A.S. Bennett
13. Handling and Operational Techniques for Instrument/Cable Systems
J.-G. Dessureault, R.F. Reiniger
14. The Carbonate System & Nutrients in Arctic Regions
E.P. Jones
15. Intergyre Exchange: Flow Across 50°W South of the Grand Banks
R. Hendry
16. World Ocean Circulation Experiment (WOCE) Hydrographic Programme Sections
R.A. Clarke, R.M. Hendry, E.P. Jones, J.R.N. Lazier
17. CO₂ Exchange at the Air-Sea Interface
S.D. Smith, R. Anderson, F. Dobson, E.P. Jones
18. CTD System for Ship-of-Opportunity Program
J.-G. Dessureault, R.A. Clarke, B. Beanlands, S.W. Young
19. Turbulent Mixing Studies during the North Atlantic Tracer Release Experiment
N.S. Oakey, B.R. Ruddick
20. Development of Efficient Models for the Study of Long-Term Climate Variations
D.G. Wright, T.S. Stocker
21. Radar Viewing Mechanisms for Ocean Feature Mapping
B.J. Topliss, T.H. Guymer
22. Temperature/Salinity Chain Development
G.A. Fowler, R.A. Clarke
23. Sea Surface Temperature Climatologies: Insitu and Satellite
B. Topliss
24. Data Management/Analysis
A. Vromans
25. Toxic Chemicals Data Management
A. Vromans
26. Brander-Smith Sensitivity Mapping
A. Vromans

MARINE DEVELOPMENTS AND TRANSPORTATION

1. Oil Trajectory Analysis
D.J. Lawrence, P.C. Smith
2. Winter Processes in the Gulf of St. Lawrence
G. Bugden
3. A Novel Vibracorer for Surface, Subsurface Remote, or ROV Support Operation
G. Fowler

OFFSHORE ENERGY RESOURCES

1. Labrador Coast Ice
S. Prinsenberg, I. Peterson
2. Wind Sea Dynamics
W. Perrie
3. Modelling of Ice and Icebergs Flowing along the Labrador and Baffin Island Coasts
M. Ikeda
4. A Large-Scale Circulation in the Labrador Sea and Baffin Bay
M. Ikeda
5. Labrador Ice Margin Studies
C. Tang, M. Ikeda
6. Oceanography of the Newfoundland Continental Shelf
B.D. Petrie
7. Study of Current Variability and Mixed Layer Dynamics on the Northeastern Grand Banks
C.L. Tang, B.D. Petrie
8. Anemometers for Drifting Buoys
J.-G. Dessureault, D. Harvey
9. Development of a Lagrangian Surface Drifter
D.L. McKeown
10. Horizontal and Vertical Exchange on Georges Bank
J. Loder, K. Drinkwater, E. Horne, N. Oakey
11. Oceanic CO₂
E.P. Jones
12. Wave-Wind Field Interactions
F. Dobson, S. Smith, W. Perrie
13. Oceanographic Data Management System
D. Gregory, G. Boudreau
14. Ocean Currents over Atlantic Canada Waters using Satellite Altimeters and Models
M. Ikeda
15. Development of an Ice-Resistant Mooring Assembly
G. Fowler, D. Belliveau, J. Hamilton
16. Development of Continuous Ocean

- Data Acquisition Systems
D. Belliveau, J. Hamilton, G. Fowler
17. Development of a Platform for Atmospheric Data in Real Time (PADIRT)
J. Hamilton, G. Fowler, D. Belliveau
 18. Sea Ice Flux onto Nfld. Shelves
S. Prinsenberg, I. Peterson
 19. Cross-Shelf Exchange and Ice Motion on the Northern Grand Banks: The Oceanographic Component of the Canadian Atlantic Storms Program (CASP II)
P. Smith, C. Tang, S. Prinsenberg, M. Ikeda
 20. Development of Low-Cost Ice Beacon/Instrumentation
G. Fowler, S. Prinsenberg, J. Hamilton
 21. Three-Dimensional Circulation Model for the Gulf of Maine Region
J. Loder, D.A. Greenberg
 22. Sea Ice Thickness
S. Prinsenberg
 23. Impact Monitoring System (MIMS)
D. Belliveau
 24. Data Assimilation and Remote Sensing in Ocean Wind Models
W. Perrie
 25. Sea Ice Ablation Study
C. Tang
 26. Ice Pressure in Mobile Pack Ice off the Canadian East Coast
S. Prinsenberg
 27. Verification to Satellite Ocean Surface Information
F. Dobson
 28. Assimilation of Satellite Remote Sensing Data into Sea Ice and Ocean Simulation
M. Ikeda
 29. Study of Sea Ice Using ERS-1 Data
C. Tang
 30. Eastern Canada Climate Variation Related to Sea Ice
S. Prinsenberg, M. Ikeda
 31. Coupling Ocean Wave Models to Operational Atmospheric Models
W. Perrie, B. Toulany
 32. Predictive Circulation Model for the Atlantic Canadian Shelf
J. Loder, D. Greenberg
- LIVING RESOURCES**
1. Circulation off Southwest Nova Scotia: The Cape Sable Experiment
P.C. Smith, D. LeFaivre (Quebec), K. Tee, R. Trites
 2. The Shelf Break Experiment: A Study of Low-Frequency Dynamics and Mixing at the Edge of the Scotian Shelf
P.C. Smith
 3. Long-Term Temperature Monitoring
D. Gregory, B. Petrie, E. Verge
 4. Development of a Remote Sensing Facility in Physical & Chemical Sciences Branch
C.S. Mason, B. Topliss, M. Stepanczak
 5. Horizontal and Vertical Exchange on the Southeast Shoal of the Grand Bank
J.W. Loder, C.K. Ross
 6. Optical Properties of Canadian Waters
B.J. Topliss
 7. Biological Arctic Instrumentation
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 15. Quoddy Region Oceanography
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 27. Long-Term Variations of the Northern Section of the Nova Scotia Current
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- BIOLOGICAL OCEANOGRAPHY**
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A. Longhurst
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E. Head
 9. Dissolved Organic Carbon, Colloid Aggregation and Respiration
P. Kepkay, A. Boraie
 10. Monitoring the Biological Productivity of Canadian Atlantic Waters
T. Platt, W.G. Harrison, E. Head, E. Horne, W. Li, D. Sameoto
 11. Carbon and Nitrogen Utilization of Zooplankton and Factors Controlling Secondary Production
R. Conover
 12. Shore-Base Studies of Under-Ice Eponic and Pelagic Plankton Communities
R. Conover
 13. Year-Round Plankton Research in the Arctic
R. Conover
 14. Harmful Algal Blooms and the Management of their Effects
J. Smith
 15. Indicators of the Biological Impacts of Toxic Contaminants
J. Smith
 16. Physiological Ecology of Harmful Algal Blooms
P. Cormier-Murphy
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- OCEAN CLIMATE SERVICES**
1. Microstructure Studies in the Ocean
N.S. Oakey
 2. Investigations of Air-Sea Fluxes of Heat and Momentum on Large Space and Time Scales using Newly Calibrated Bulk Formulae
F.W. Dobson, S.D. Smith
 3. Newfoundland Basin Experiment
R.A. Clarke, R.M. Hendry, E.P. Jones
 4. Problems in Geophysical Fluid Dynamics
C. Quon
 5. Norwegian/Greenland Sea Experiment
R.A. Clarke, E.P. Jones, J. Reid (Scripps), J. Swift (Scripps)
6. Ship of Opportunity Expendable Bathythermograph Programme for the Study of Heat Storage in the North Atlantic Ocean
F. Dobson
 7. Data Management & Archival
D.N. Gregory
 8. Eastern Arctic Physical Oceanography
C.K. Ross
 9. Seasonal and Interannual Variability in the Gulf of St. Lawrence
G.L. Bugden
 10. Tidal and Residual Currents - 3-D Modelling Studies
K.-T. Tee
 11. Handling and Operational Techniques for Instrument/Cable Systems
J.-G. Dessureault, R.F. Reiniger
 12. The Carbonate System & Nutrients in Arctic Regions
E.P. Jones
 13. Intergyre Exchange: Flow Across 50°W South of the Grand Banks
R. Hendry
 14. World Ocean Circulation Experiment (WOCE) Hydrographic Programme Sections
R.A. Clarke, R.M. Hendry, E.P. Jones, J.R.N. Lazier
 15. CO₂ Exchange at the Air-Sea Interface
S.D. Smith, R. Anderson, F. Dobson, E.P. Jones
 16. CTD System for Ship-of-Opportunity Program
J.-G. Dessureault, R.A. Clarke, B. Beanlands, S.W. Young
 17. Turbulent Mixing Studies during the North Atlantic Tracer Release Experiment
N.S. Oakey, B.R. Ruddick
 18. Development of Efficient Models for the Study of Long-Term Climate Variations
D.G. Wright, T.S. Stocker
 19. Radar Viewing Mechanisms for Ocean Feature Mapping
B.J. Topliss, T.H. Guymer
 20. Temperature/Salinity Chain Development
G.A. Fowler, R.A. Clarke
 21. Sea Surface Temperature Climatologies: *In-situ* and Satellite
B. Topliss
- MARINE DEVELOPMENTS AND TRANSPORTATION**
1. Oil Trajectory Analysis
D.J. Lawrence, P.C. Smith
 2. Winter Processes in the Gulf of St. Lawrence
G. Bugden
 3. A Novel Vibracorer for Surface, Subsurface Remote, or ROV Support Operation
G. Fowler
- OFFSHORE ENERGY RESOURCES**
1. Labrador Coast Ice
S. Prinsenberg, I. Peterson
 2. Wind Sea Dynamics
W. Perrie
 3. Modelling of Ice and Icebergs Flowing along the Labrador and Baffin Island Coasts
M. Ikeda
 4. A Large-Scale Circulation in the Labrador Sea and Baffin Bay
M. Ikeda
 5. Labrador Ice Margin Studies
C. Tang, M. Ikeda
 6. Oceanography of the Newfoundland Continental Shelf
B.D. Petrie
 7. Study of Current Variability and Mixed Layer Dynamics on the Northeastern Grand Banks
C.L. Tang, B.D. Petrie
 8. Anemometers for Drifting Buoys
J.-G. Dessureault, D. Harvey
 9. Development of a Lagrangian Surface Drifter
D.L. McKeown
 10. Horizontal and Vertical Exchange on Georges Bank
J. Loder, K. Drinkwater, E. Horne, N. Oakey
 11. Oceanic CO₂
E.P. Jones
 12. Wave-Wind Field Interactions
F. Dobson, S. Smith, W. Perrie
 13. Oceanographic Data Management System
D. Gregory, G. Boudreau
 14. Ocean Currents over Atlantic Canada Waters using Satellite Altimeters and Models
M. Ikeda
 15. Development of an Ice-Resistant Mooring Assembly
G. Fowler, D. Belliveau, J. Hamilton
 16. Development of Continuous Ocean Data Acquisition Systems
D. Belliveau, J. Hamilton, G. Fowler
 17. Development of a Platform for

- Atmospheric Data in Real Time (PADIRT)
J. Hamilton, G. Fowler, D. Belliveau
18. Sea Ice Flux onto Nfld. Shelves
S. Prinsenberg, I. Peterson
 19. Cross-Shelf Exchange and Ice Motion on the Northern Grand Banks: The Oceanographic Component of the Canadian Atlantic Storms Program (CASPII)
P. Smith, C. Tang, S. Prinsenberg, M. Ikeda
 20. Development of Low-Cost Ice Beacon/Instrumentation
G. Fowler, S. Prinsenberg, J. Hamilton
 21. Three-Dimensional Circulation Model for the Gulf of Maine Region
J. Loder, D.A. Greenberg
 22. Sea Ice Thickness
S. Prinsenberg
 23. Impact Monitoring System (MIMS)
D. Belliveau
 24. Data Assimilation and Remote Sensing in Ocean Wind Models
W. Perrie
 25. Sea Ice Ablation Study
C. Tang
 26. Ice Pressure in Mobile Pack Ice off the Canadian East Coast
S. Prinsenberg
 27. Verification to Satellite Ocean Surface Information
F. Dobson
 28. Assimilation of Satellite Remote Sensing Data into Sea Ice and Ocean Simulation
M. Ikeda
 29. Study of Sea Ice Using ERS-1 Data
C. Tang
 30. Eastern Canada Climate Variation Related to Sea Ice
S. Prinsenberg, M. Ikeda
 31. Coupling Ocean Wave Models to Operational Atmospheric Models
W. Perrie, B. Toulany
 32. Predictive Circulation Model for the Atlantic Canadian Shelf
J. Loder, D. Greenberg
- LIVING RESOURCES**
1. The Shelf Break Experiment: A Study of Low-Frequency Dynamics and Mixing at the Edge of the Scotian Shelf
P.C. Smith
 2. Long-Term Temperature Monitoring
D. Gregory, B. Petrie, E. Verge
 3. Development of a Remote Sensing Facility in Physical & Chemical Sciences Branch
C.S. Mason, B. Topliss, M. Stepanczak
 4. Horizontal and Vertical Exchange on the Southeast Shoal of the Grand Bank
J.W. Loder, C.K. Ross
 5. Optical Properties of Canadian Waters
B.J. Topliss
 6. Multi-Frequency Acoustic Scanning of Water Column
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11. Environmental Effects on Biological Production in the Gulf of St. Lawrence
J. Smith
12. Biological Productivity
P. Cormier-Murphy

**ENVIRONMENT CANADA
ENVIRONMENTAL CONSERVATION
BRANCH
ENVIRONMENTAL QUALITY
LABORATORY, BIO
1994**

1. Industrial compliance/enforcement monitoring - *Fisheries Act*.
K. Doe, O. Vaidya, P. Hennigar.
2. Ocean dumpsite monitoring (New Brunswick and Quebec).
K. Doe, K. Tay (EPS).
3. Oil spill bioremediation experiment.
K. Doe, K. Lee (DFO).
4. Toxicity of oil spill treating agents.
A. Huybers, K. Doe.
5. Toxicity test methods R&D - Polychaete worms as test organisms.
K. Doe, P. Pocklington, M. Pocklington.
6. Metals in shellfish tissue - Gulfwatch.
O. Vaidya.
7. Mercury distribution in peat bogs.
O. Vaidya.
8. US-Canada Gulf of Maine mussel watch "Gulfwatch" project: Provision of PAH, PCB and pesticide data to the Gulf of Maine Environmental Monitoring Committee, data interpretation; QA support; and report preparation.
9. Oil Identification: Oil spill chemical identification and matching service in support of EC and CCG spill investigations and legal prosecutions under the FA and the Canada Shipping Act.
10. Quality Assurance Guidelines: Development of analytical QA/QC

guidelines for the Canadian Shellfish Contaminants Monitoring program and the Ocean Disposal program.

1995

1. Industrial compliance/enforcement monitoring - *Fisheries Act*.
K. Doe, O. Vaidya, P. Hennigar.
2. Toxic effects of chlorobenzenes in sediments.
K. Doe, D. Vaughan, S. Wade, A. Huybers.
3. Pollution Gradient Study, Belledune, N.B.
K. Doe, S. Wade, A. Huybers, G. Wohlgeschaffen.
4. Biological effects of fluoride in marine sediments.
K. Doe, S. Wade, A. Huybers, G. Wohlgeschaffen.
5. Determination of oil and grease using tetrachloroethylene: An Interlaboratory Comparison Study.
O. Vaidya.
6. Determination of metals in mussels, a comparative study of analytical methods.
O. Vaidya, R. Rantala (DFO).
7. Mercury in fish tissues from Nova Scotia.
B. Horne, O. Vaidya.
8. Metals in shellfish tissue - Gulfwatch.
O. Vaidya.
9. *Irving Whale* Raising Project: Provision to project management of scientific and technical information on the physical and chemical properties of bunker oil, PCBs, chlorobenzene, chlorinated dioxin and furans; sediment and biota chemical data; assessment of environmental levels of PCBs and other contaminants near the Whale site and project quality assurance support.
10. US-Canada Gulf of Maine mussel watch "Gulfwatch" project: Provision of PAH, PCB and pesticide data to the Gulf of Maine Environmental Monitoring Committee, data interpretation; QA support; and report preparation.
11. Quality Assurance Guidelines: Development of analytical QA/QC guidelines for the Canadian Shellfish Contaminants Monitoring program and the Ocean Disposal program.

GEOLOGICAL SURVEY OF CANADA (ATLANTIC)

COASTAL GEOLOGY PROGRAM

1. Beaufort Sea Coastal Zone Geotechnics
S. Solomon
2. Geological Mapping of the Coastal Zone
R. Taylor
3. Sediment Dynamics and Depositional Processes in the Coastal Zone
D. Forbes
4. Relative Sea-level Changes and Coastal Response
J. Shaw
5. Nearshore Sediments and Non-Fuel Minerals - Nova Scotia MDA 2
G. Fader
6. Coastal and Marine Proxy Data
J. Syvitski
7. Fraser Delta Studies
H. Christian

GEOLOGY OF THE SOUTHEASTERN CANADIAN MARGIN

1. Surficial and Shallow Bedrock Geology of Grand Banks and Scotian Shelf
G. Fader
2. Engineering Geology of the Atlantic Shelf
R. Parrott
3. Ice Scouring of Continental Shelves
M. Lewis
4. Physical Property Studies of Canadian Eastern and Arctic Continental Shelves and Slopes
K. Moran
5. Quaternary Geological Processes on Continental Slopes
D. Piper
6. Stability and Transport of Sediments on Continental Shelves
C. Amos

EASTERN ARCTIC AND SUB-ARCTIC GEOLOGY

1. Eastern Baffin Island Shelf and Hudson Strait: Bedrock and Surficial Geological Mapping Program
B. MacLean
2. Quantitative Quaternary Paleocology, Eastern Canada
P. Mudie
3. Surficial Geology, Geomorphology and Glaciology of the Gulf of St. Lawrence, Labrador Shelf and Hudson Bay
H. Josenhans

WESTERN ARCTIC GEOLOGY

1. Surficial Geology and Geomorphology, Beaufort Sea Continental Shelf
S. Blasco

GEOCHEMISTRY

1. Diagenesis and Geochemical Cycling
R. Cranston
2. Early Diagenesis in Quaternary Marine Sediments of Eastern and Arctic Canada
D. Buckley
3. Environmental Marine Geology of Halifax Inlet and Approaches, Nova Scotia
D. Buckley

REGIONAL GEOPHYSICAL SURVEYS

1. Interpretation of Potential Field Data
J. Verhoef
2. Magnetic and Gravity Anomalies over Sedimentary Basins
B. Loncarevic
3. Magnetic Data Compilations
R. Macnab
4. Regional Geophysics of Mesozoic-Cenozoic of Newfoundland Margin
K. Coffin
5. Evolution of Continental Margins
G. Bassi

HYDROCARBON RESOURCE**APPRAISAL**

1. Hydrocarbon Inventory of Sedimentary Basins of Eastern Canada
D. McAlpine
2. Maturation Studies
D. McAlpine

BIOSTRATIGRAPHY

1. Biostratigraphic Zonation of the Mesozoic and Cenozoic Rocks of the Atlantic Shelf
P. Ascoli

QUANTITATIVE DATABASES

1. Sample and Data Curation
I. Hardy

GEOLOGICAL TECHNOLOGY DEVELOPMENT

1. Large Diameter Piston Corer Development
W. McKinnon
2. Development and Implementation of Remotely Operated Vehicle Technology
K. Manchester
3. Systems Development
D. Heffler

SPECIAL GEOLOGICAL PROJECTS

1. Basin Atlases - Offshore Eastern Canada
D. Ross
2. Bedrock Geology of Hudson Bay and Gulf of St. Lawrence
A. Grant
3. Appalachian Initiative
P. Giles

INVESTIGATION OF DEEP GEOLOGICAL STRUCTURES

1. Evolution of Deep Ocean and Adjoining Sedimentary Basins off Eastern Canada and Western Greenland
S. Srivastava
2. Crustal Properties
M. Salisbury
3. Geophysical Study of the Gulf of St. Lawrence Region
F. Marillier
4. Marine Deep Seismic Reflection Studies - Eastern Canada
C. Keen
5. Seismic Refraction - Labrador Sea and Baffin Bay
R. Jackson
6. Dynamic Modelling of Canadian Cratonic Basins - Western Canada and Hudson Basins
R. Courtney

THEORETICAL GEOPHYSICAL MODELLING

1. Rift Processes and the Development of Passive Continental Margins
C. Keen

BASIN ANALYSIS AND PETROLEUM GEOLOGY

1. Palynostratigraphic Atlases
R. Fensome
2. Regional Geology of the Mesozoic and Cenozoic Rocks of the Atlantic Continental Margins
J. Wade
3. Stratigraphy and Sedimentology of the Mesozoic and Tertiary Rocks of Atlantic Continental Margin
L. Jansa
4. Sedimentary Basin Evolution of the Continental Margin of Newfoundland, Labrador and Baffin Bay
D. McAlpine
5. Hydrocarbon Charge Modelling Offshore Eastern Canada
M. Williamson