Contents of Selected Journals

February 2013

Compiled
V. Edwin Joseph
P. Geetha

Library & Documentation Centre
CMFRI, Cochin - 18
<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Title</th>
<th>Vol./No.</th>
<th>Mon./Yr</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Aquatic Living Resources</td>
<td>25 (3)</td>
<td>2012</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Biological Bulletin</td>
<td>223 (2)</td>
<td>Oct ‘12</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>Bulletin of Japanese Soc. of Fish. Oceanography</td>
<td>76 (4)</td>
<td>Nov ‘12</td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td>Bulletin of Peabody Museum of Natural History</td>
<td>53 (2)</td>
<td>Oct ’12</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>Canadian J. of Fisheries and Aquatic Sciences</td>
<td>69 (10)</td>
<td>Oct ‘12</td>
<td>7-8</td>
</tr>
<tr>
<td>7</td>
<td>Copeia</td>
<td>No.4</td>
<td>2012</td>
<td>9-10</td>
</tr>
<tr>
<td>8</td>
<td>Fisheries</td>
<td>37 (12)</td>
<td>Dec ‘12</td>
<td>11</td>
</tr>
<tr>
<td>9</td>
<td>Helgoland Marine Research</td>
<td>66 (4)</td>
<td>Dec ‘12</td>
<td>12</td>
</tr>
<tr>
<td>10</td>
<td>ICES Journal of Marine Science</td>
<td>69 (9)</td>
<td>Nov ‘12</td>
<td>13-14</td>
</tr>
<tr>
<td>11</td>
<td>ICES Journal of Marine Science</td>
<td>69 (10)</td>
<td>Dec ‘12</td>
<td>15-16</td>
</tr>
<tr>
<td>12</td>
<td>Infofish International</td>
<td>No.1</td>
<td>Jan-Feb ‘13</td>
<td>17</td>
</tr>
<tr>
<td>13</td>
<td>JMBA UK</td>
<td>92 (4)</td>
<td>Jun ‘12</td>
<td>18</td>
</tr>
<tr>
<td>14</td>
<td>Journal of Aquatic Animal Health</td>
<td>24 (4)</td>
<td>Dec ‘12</td>
<td>19</td>
</tr>
<tr>
<td>15</td>
<td>Journal of Fish Biology</td>
<td>81 (7)</td>
<td>Dec ‘12</td>
<td>20</td>
</tr>
<tr>
<td>16</td>
<td>Marine Resource Economics</td>
<td>27 (4)</td>
<td>2012</td>
<td>21</td>
</tr>
<tr>
<td>17</td>
<td>Marine Science Bulletin</td>
<td>14 (2)</td>
<td>Oct ‘12</td>
<td>22</td>
</tr>
<tr>
<td>18</td>
<td>Transactions of the American Fisheries Society</td>
<td>141 (6)</td>
<td>Nov ‘12</td>
<td>23</td>
</tr>
<tr>
<td>19</td>
<td>Turkish J. of Fisheries and Aquatic Sciences</td>
<td>12 (3)</td>
<td>Sep ‘12</td>
<td>24-25</td>
</tr>
<tr>
<td>20</td>
<td>Zoological Studies</td>
<td>51 (5)</td>
<td>Sep ‘12</td>
<td>26</td>
</tr>
</tbody>
</table>
## New Additions to Library

<table>
<thead>
<tr>
<th></th>
<th>Periodicals</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>27-30</td>
</tr>
</tbody>
</table>
Research Papers

Economic dimension of the collapse of the 'false cod' *Epinephelus aeneus* in a context of ineffective management of the small-scale fisheries in Senegal

D Thiao, C Chaboud, A Samba, F Laloé and PM Cury

305

Plant traits and spread of the invasive salt marsh grass, *Spartina alterniflora* Loisel., in the Great Brak Estuary, South Africa

JB Adams, A Grobler, C Rowe, T Riddin, TG Bornman and DR Ayres

313

Photosynthetic performance, epiphyte biomass and nutrient content of two seagrass species in two areas with different level of nutrients along the Dar es Salaam coast

EF Mvungi and FA Mamboya

323

Fishing methods for sustainable shrimp fisheries in the Canary Islands (North-West Africa)

M Arrasate-López, VM Tuset, JI Santana, A García-Mederos, O Áyza and JA González

331

Patterns of endemicity and range restriction among southern African coastal marine invertebrates

RJ Scott, CL Griffiths and TB Robinson

341

Composition of macrobenthos in the Wouri River estuary mangrove, Douala, Cameroon

VM Ngo-Massou, GL Essome-Kourn, E Ngollo-Dina and N Din

349

Diversity of decapod crustaceans at the interface of unconsolidated seabed areas and rocky shores in tropical/subtropical Brazil

A Fransozo, M Furlan, V Fransozo, G Bertini, RC da Costa and LC Fernandes-Gôes

361

Natal site fidelity by breeding female southern elephant seals in relation to their history of participation in the winter haulout

GJG Hofmeyr, SP Kirkman, PA Pistorius and MN Bester

373

Chromosomal population structuring in carangids (Perciformes) between the north-eastern and south-eastern coasts of Brazil

IV Accioly, LAC Bertollo, GWWF Costa, UP Jacobina and WF Molina

383

Contents continued on inside back cover
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal constraints on the respiration and excretion rates of krill, Euphausia hansenii and Nematoscelis megalops, in the northern Benguela upwelling system off Namibia</td>
<td>391</td>
</tr>
<tr>
<td>Long-term trends in the recreational shore-fishery for elf Pomatomus saltatrix (Pomatomidae) along the KwaZulu-Natal coast, South Africa</td>
<td>401</td>
</tr>
<tr>
<td>Trends in numbers of crowned cormorants in South Africa, with information on diet</td>
<td>411</td>
</tr>
<tr>
<td>Significant population genetic structuring of the holoplanktic scyphozoan Pelagia noctiluca in the Atlantic Ocean</td>
<td>425</td>
</tr>
<tr>
<td>Diet of the Cape fur seal Arctocephalus pusillus pusillus at the Robberg Peninsula, Plettenberg Bay, and implications for local fisheries</td>
<td>431</td>
</tr>
<tr>
<td>Sea level changes at Ascension Island in the last half century</td>
<td>443</td>
</tr>
</tbody>
</table>

**Short Communications**

- First record of Mesoplodon densirostris (Blainville 1817) from continental East Africa | 453  |
- Validation of growth zone deposition rate in otoliths and scales of flathead mullet Mugil cephalus and freshwater mullet Myxus capensis from fish of known age | 455  |
- Myosotella myosotis (Mollusca: Ellobiidae) — an overlooked, but well-established introduced species in South Africa | 459  |
M. Andrés, R. Pellezio
Measuring the adaptability of fleet segments to a fishing ban: the case of the Bay of Biscay anchovy fishery .......................................................... 205

A. Raveu, C. Macher, S. Méhault, M. Merzereaud, C. Le Grand, O. Guyader, M. Bertignac, S. Fifas, J. Guillen
A bio-economic analysis of experimental selective devices in the Norway lobster (Nephrops norvegicus) fishery in the Bay of Biscay ........................................ 215

N. Madsen, B. Herrmann, R.P. Frandsen, L. Ahm Krag
Comparing selectivity of a standard and turned mesh T90 codend during towing and haul-back 231

Ontogenetic differentiation of swimming performance and behaviour in relation to habitat availability in the endangered North Sea houting (Coregonus oxyrinchus) 241

Evaluation of self-feeders as a tool to study diet preferences in groups of Atlantic cod (Gadus morhua) .......................................................... 251

M. Zapata, M. Lang, R. Riso, D. Moraga, C. Riquelme
Trace metal and biomarker levels in tissues of Argopecten purpuratus in the north of Chile, and the potential use of this species as a bioindicator of metallic stress 259

A. Tayale, Y. Gueguen, C. Treguier, J. Le Grand, N. Cochenne-er-Laureau, C. Montagnani, C.-L. Ky
Evidence of donor effect on cultured pearl quality from a duplicated grafting experiment on Pinctada margaritifera using wild donors 269
THE BIOLOGICAL BULLETIN

CONTENTS

VOLUME 223, NO. 2: OCTOBER 2012

POSITION PAPER

Ferrer, Ryan P., and Richard K. Zimmer
Community ecology and the evolution of molecules of keystone significance ........................................... 167

PHYSIOLOGY AND BIOMECHANICS

Becker, Pierre T., Aurélie Lambert, Annabelle Lejeune, Déborah Lanterbecq, and Patrick Flammang
Identification, characterization, and expression levels of putative adhesive proteins from the tube-dwelling polychaete Sabellaria alvoluta .......................... 217

CELL BIOLOGY

Milograna, Sarah Ribeiro, Fernanda Tinti Bell, and John Campbell McNamara
Signaling events during cyclic guanosine monophosphate-regulated pigment aggregation in freshwater shrimp chromatophores ................................ 178

Edmunds, Peter J., Hollie M. Putnam, and Ruth D. Gates
Photophysiological consequences of vertical stratification of Symbiodinium in tissue of the coral Porites tupa .................................................. 226

Identification, characterization, and expression levels of putative adhesive proteins from the tube-dwelling polychaete Sabellaria alvoluta

Zden, Vanessa, Janek Von Byern, Alexandra Kerbl, Nikolaus Leiseg, Yannick Staedler, Ingo Grunwald, Anne Marie Power, And Waltraud Klepal
Morphology of the cement apparatus and the cement of the buoy barnacle Dosima fascicularis (Crustacea, Cirripedia, Thoracica, Lepadidae) ................ 192

Wolfe, Kennedy, Abigail M. Smith, Patrick Trimby, and Maria Byrne
Vulnerability of the paper nautilus (Argonauta nodosa) shell to a climate-change ocean: potential for extinction by dissolution ..................... 236

ECOLOGY AND EVOLUTION

Fitzgerald-Deboog, Lindsay, Jeremy Browning, and Bengt J. Allen
Food and heat stress in the California mussel: evidence for an energetic trade-off between survival and growth .................................................. 205

SYMBIOSIS AND PARSITOLOGY

Parrin, Austin P., Katherine L. Harmata, Sarah E. Netherton, Mark A. Yaeger, Lori S. Bross, and Neil W. Blackstone
 Within-colony migration of symbionts during bleaching of octocorals .................................................. 245
Contents

333  New Data on Small Theropod Footprints from the Early Jurassic (Hettangian) Hartford Basin of Massachusetts, United States by Sebastian G. Dalman

355  The Cranial Anatomy of the Miocene Notoungulate Hegetotherium mirabile (Notoungulata, Hegetotheriidae) with Preliminary Observations on Diet and Method of Feeding by Dakota E. McCoy and Christopher A. Norris

375  Resurrection and Redescription of Placobdella rugosa (Verrill, 1874) (Hirudinida: Glossiphoniidae) by William E. Moser, Dennis J. Richardson, Charlotte I. Hammond, Fredric R. Govedich and Eric A. Lazo-Wasem

383  Diet of Chalcides ocellatus (Squamata: Scincidae) from Southern Egypt by Dylan J. Taylor, James Titus-McQuillan and Aaron M. Bauer

389  Cycliophoran Host Range by Melanie Plaza
<table>
<thead>
<tr>
<th>ARTICLES</th>
<th>ARTICLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jesse M. Lepak, C. Nathan Cathcart, and Mevin B. Hooten</td>
<td>1569–1575</td>
</tr>
<tr>
<td>Stefan Stoll and Peter Beeck</td>
<td>1576–1584</td>
</tr>
<tr>
<td>David Lévesque, Antonella Cattaneo, Christiane Hudon, and Pierre Gagnon</td>
<td>1585–1595</td>
</tr>
<tr>
<td>Carla A.V. Serfas, Anna Varian, Rachel Holman, Lindsey M. Watch, Jesse Karner, and Jill B.K. Leonard</td>
<td>1596–1609</td>
</tr>
<tr>
<td>D.M. Gillis and A. van der Lee</td>
<td>1610–1620</td>
</tr>
<tr>
<td>Lauren M. Kuehne, Julian D. Olden, and Jeffrey J. Duda</td>
<td>1621–1630</td>
</tr>
<tr>
<td>Andrew O. Shelton, Stephan B. Munch, David Keith, and Marc Mangel</td>
<td>1631–1641</td>
</tr>
<tr>
<td>Paul C. Frost and Andrea L. Hicks</td>
<td>1642–1650</td>
</tr>
<tr>
<td>Guillaume Guénard, Daniel Boisclair, Ola Ugedal, Torbjørn Forseth, Ian A. Fleming, and Bror Jonsson</td>
<td>1651–1662</td>
</tr>
</tbody>
</table>

*Continued on inside back cover / Suite au verso*
Liliana Garcia, John S. Richardson, and Isabel Pardo

Rebecca E. Whitlock and Murdoch K. McAllister

Paolo Ruggeri, Andrea Splendiani, Sara Bonanomi, Enrico Arneri, Nando Cingolani, Alberto Santojanni, Andrea Belardinelli, Massimo Giovannotti, and Vincenzo Caputo

Michael E. Colvin, Clay L. Pierce, and Timothy W. Stewart

David M. Keith and Jeffrey A. Hutchings

1663–1673 Leaf quality influences invertebrate colonization and drift in a temperate rainforest stream

1674–1697 Incorporating spatial and seasonal dimensions in a stock reduction analysis for lower Fraser River white sturgeon (Acipenser transmontanus)

1698–1709 Temporal genetic variation as revealed by a microsatellite analysis of European sardine (Sardina pilchardus) archived samples

1710–1721 Semidiscrete biomass dynamic modeling: an improved approach for assessing fish stock responses to pulsed harvest events

CORRIGENDUM

1722 Corrigendum: Population dynamics of marine fishes at low abundance

RECTIFICATIF
Microhabitats for Oviposition and Male Clutch Attendance in *Hyalinobatrachium aureoguttatum* (Anura: Centrolenidae)  Anyelet Valencia-Aguilar, Fernando Castro-Herrera, and Martha Patricia Ramírez-Pinilla ........................................ 722

Movement Patterns in the Smallest Viper, *Bitis schneideri*  Bryan Marsis and Graham J. Alexander ........................................ 732

Emergence Success and Sex Ratio of Natural and Relocated Nests of Olive Ridley Turtles from Alas Purwo National Park, East Java, Indonesia  Risma I. Maulany, David T. Booth, and Greg S. Baxter ........................................ 738

Morphological Color-Change in the Red-Backed Salamander (*Plethodon cinereus*) While Kept in Captivity  Andrew C. Krammer, Jessica Kissner, and Dean C. Adams ........................................ 748

Pleurodeles waltl Newt Larvae Diet Regarding Available Prey: Choice or Mere Coincidence?  Juan Garcia-de-Lomas, José María Torres, Ricardo Reques, and Ignacio Hernández ........................................ 756

Obituaries

John Michael “Mike” Fitzsimons (1941–2012)  Heiko L. Schoenfuss and William F. Font ........................................ 762

Book Reviews

The Sharks of North America. By Jose I. Castro  David A. Ebert ........................................ 765


Biology of Turtles: From Structures to Strategies of Life. By Jeanette Wyneken, Matthew H. Godfrey, and Vincent Bels (eds.)  H. Bradley Shaffer ........................................ 771

Sex Determination and Differentiation in Reptiles. By Ettore Olmo (ed.)  Tobias Uller ........................................ 773

Animal Behavior. By Michael D. Breed and Janice Moore  Nicole M. Kime ........................................ 774

Sex Determination and Differentiation in Fish. By A. Cnaani (ed.)  Ron Oldfield ........................................ 776

Editorial Notes and News ........................................ 779

Student Awards ........................................ 780

Summary of the Meetings 2012 ........................................ 783

Taxonomic Index ........................................ 791

Subject Index ........................................ 809

Volume Contents ........................................ 817
President’s Hook
531  Developing a Legacy Through Mentoring
The mentor/mentee relationship works best when there is a sustained interpersonal chemistry between the parties that grows out of the true desire of the mentor to help the mentee, the desire of the mentee to be helped, and mutual respect.

John Boreman — AFS President

Guest Director’s Line
569  Gifts for the Holiday Season
The gifts we can give and receive in the classroom of the great outdoors.

Donald C. Jackson

FEATURES

Socioeconomics
532  Ohio’s 2010 Lake Erie Charter Fishing Industry
Captains from the Great Lakes largest charter fleet respond to the Seventh Ohio Sea Grant Socioeconomic Survey of Ohio’s Lake Erie charter industry.

Joseph E. Lucente, Tory Gabriel, Gregory Davis, Colleen Wellington, and Frank Lichtkoppler

Fisheries Management
542  The Past as Prelude to the Future for Understanding 21st Century Climate Effects on Rocky Mountain Trout
Patterns within five case history watersheds across the Rocky Mountains provide evidence of ongoing climate change and highlight geographic differences in the vulnerability of trout populations.

Daniel J. Isaak, Clint C. Muhlfeld, Andrew S. Todd, Robert Al-Chokhachy, James Roberts, Jeffrey L. Kernsner, Kurt D. Fausch, and Steven W. Hostetter

AWARDS

557  Steven Berkeley Marine Conservation Fellowship Announcement

558  Section Awards — AFS 142nd Annual Meeting, 2012, Minneapolis, Minnesota

559  Call For Award Nominations — AFS 143rd Annual Meeting, 2013, Little Rock, Arkansas

FOURTH CALL FOR PAPERS

563  2013 Annual Meeting — Little Rock, Arkansas

UNIT NEWS

567  News from the International Fisheries Section

Brian Bellgraph

REVIEW

568  Using Film Documentaries as Fisheries Teaching Tools — Taking Stock and Gutted
The demise of Scotland’s fishing industry.

Francis Juanes

JOURNAL HIGHLIGHTS

571  North American Journal of Aquaculture, Volume 47, Number 4, October 2012

CALENDAR

572  Fisheries Events

ANNOUNCEMENTS

573  December 2012 Jobs

ANNUAL INDEX  575
Contents

Volume 66 · Number 4 · December 2012

ORIGINAL ARTICLES

- Distribution of polychaete feeding guilds in sedimentary environments of the Campeche Bank, Southern Gulf of Mexico (N. Domínguez Castañeiro, P. Hernández Alcántara, V. Solís-Weiss, A. Granados Barba) - 469

- Population structure, growth and production of Thorsophila furcifera (Polychaeta: Opheliidae) on a sandy beach in Southern Brazil (M.B.P. Otegui, A. Blankensteyn, F.R. Pagliosa) - 479

- The effect of depth and sediment type on the spatial distribution of shallow soft-bottom amphipods along the southern Portuguese coast (S. Carvalho, M.R. Cunha, F. Perela, P. Pouso-Ferreira, M.N. Santos, M.B. Gaspar) - 489

- Environmental influence on the bottom and near-bottom megafauna communities of the Dogger Bank: a long-term survey (M. Sonnewald, M. Türkay) - 503

- New alien barnacles in the Azores and some remarks on the invasive potential of Balanidae (P. Torres, A.C. Costa, M.A. Dionello) - 513

- Effects of patch size and position above the substratum during early succession of subtidal soft-bottom communities (A.S. Paídeo, M. Theil, M.E. Oliva, J.M. Rivas) - 523

- Mesoscale advection of Upogebia peslicata larvae through an upwelling filament in the Canary Coastal Transition Zone (CTZ) (J.M. Landeira, P. Lozano-Soldáñez, E.D. Varon) - 537

- Early detection of potentially invasive invertebrate species in Mytilus galloprovincialis Lamarck, 1819 dominated communities in harbours (C. Preda, D. Menedemín, M. Skolka, D. Cogán) - 545


- Soft-bottom crustacean assemblages in Mediterranean marine caves: the case of Cueva Gordo (Granada, Spain) as case study (C. Navarro-Barranco, J.M. Guerra-García, L. Sánchez-Tocino) - 567

- Succession in subtidal macrofouling assemblages of a Patagonian harbour (Argentina, SW Atlantic) (A. Rico, R. Peralta, J. López Gappa) - 577

- Composition and structure of the molluscan assemblage associated with a Cymodocea nodosa bed in south-eastern Spain: seasonal and diel variation (P. Marina, J. Urra, J.L. Rueda, C. Salas) - 585

- Apseudopsis adami, a new species of tanaiidacean (Crustacea: Peracarida) from the NW Iberian Peninsula: post-maturity development and remarks on morphological characters (P. Esque, E.N. Bamber, J. Moore, J.S. Troncoso) - 601

- Mesozooplankton and copepod communities structures in the southern East China Sea: the status during the monsoonal transition period in September (L.C. Tseng, H.-U. Dahms, Q.-C. Chen, J.-S. Hwang) - 621

- Vertical distribution of the proarctic cell size in the Mediterranean Sea (R. La Ferla, G. Mainone, M. Azzaro, F. Conversato, C. Brunet, A.S. Cabral, R. Paranhos) - 635

- Reproductive traits of the small Patagonian octopus Octopus tehuacanas (González) (L.F. Storero, M.A. Navarrete, R.A. González) - 651

- Receptivity of female Neoletece granulata (Brachyura, Varuniidae): different strategies to maximize their reproductive success in contrasting habitats (M.P. Sal Moya, T. Luppi, M.A. Gavio, M. Vallina, C. McIay) - 661

Indexed in abstracted by Science Citation Index, Science Citation Index Expanded, Ei Compendex, Scopus, GIS, CSA, CAB International, Academic OneFile, AIP, Biological Abstracts, BIOSIS, CAB Abstracts, Current Abstracts, Current Contents/Agriculture, Biology & Environmental Sciences, EMBase, EBSCO, CABI, Global Health, Journal Citation Reports, Science Edition, OCLC

Further articles can be found at www.springerlink.com

Instructions for Authors are available on the journal’s website www.Springer.com/1012?
Contents

1533  L. P. Hansen, P. Hutchinson, D. G. Reddin, & M. L. Windsor
Salmon at Sea: Scientific Advances and their Implications for Management: an introduction

1538  G. Chaput
Overview of the status of Atlantic salmon (Salmo salar) in the North Atlantic and trends in marine mortality

1549  G. Beaugrand & P. C. Reid
Relationships between North Atlantic salmon, plankton, and hydroclimatic change in the Northeast Atlantic

The influence of the freshwater environment and the biological characteristics of Atlantic salmon smolts on their subsequent marine survival

1574  S. Mäntyniemi, A. Romakkaniemi, J. Dannewitz, S. Palm, T. Pakarinen, H. Pulkkinen, A. Gårdmark, & O. Karlsson
Both predation and feeding opportunities may explain changes in survival of Baltic salmon post-smolts

1580  T. F. Sheehan, D. G. Reddin, G. Chaput, & M. D. Renkawitz
SALSEA North America: a pelagic ecosystem survey targeting Atlantic salmon in the Northwest Atlantic

Distribution and biological characteristics of Atlantic salmon (Salmo salar) at Greenland based on the analysis of historical tag recoveries

Distribution by origin and sea age of Atlantic salmon (Salmo salar) in the sea around the Faroe Islands based on analysis of historical tag recoveries

1609  A. S. Miller, T. F. Sheehan, M. D. Renkawitz, A. L. Meister, & T. J. Miller
Revisiting the marine migration of US Atlantic salmon using historical Carlin tag data

Modelling the migration of post-smolt Atlantic salmon (Salmo salar) in the Northeast Atlantic
1625  E. Verspoor, S. Consuegra, O. Fridjonsson, S. Hjorleifsdotir, D. Knox, K. Olafsson, S. Tompsett, V. Wennevik, & C. Garcia de Leaniz
Regional mtDNA SNP differentiation in European Atlantic salmon (Salmo salar): an assessment of potential utility for determination of natal origin

Stable isotopes reveal age-dependent trophic level and spatial segregation during adult marine feeding in populations of salmon

1646  H. J. Dixon, M. Power, J. B. Dempson, T. F. Sheehan, & G. Chaput
Characterizing the trophic position and shift in Atlantic salmon (Salmo salar) from freshwater to marine life-cycle phases using stable isotopes

1656  G. Chaput & H. P. Benoît
Evidence for bottom-up trophic effects on return rates to a second spawning for Atlantic salmon (Salmo salar) from the Miramichi River, Canada

Age and fine-scale marine growth of Atlantic salmon post-smolts in the Northeast Atlantic

1678  J. E. Reid & G. Chaput
Spawning history influence on fecundity, egg size, and egg survival of Atlantic salmon (Salmo salar) from the Miramichi River, New Brunswick, Canada

1686  C. D. Todd, K. D. Friedland, J. C. MacLean, B. D. Whyte, I. C. Russell, M. E. Lonergan, & M. B. Morrissey
Phenological and phenotypic changes in Atlantic salmon populations in response to a changing climate

1699  List of Referees
K. J. Krumsick & G. A. Rose
Atlantic cod (*Gadus morhua*) feed during spawning off Newfoundland and Labrador

E. T. Methratta & J. S. Link
Feeding hotspots for four northwest Atlantic groundfish species

H. Otterå, A.-L. Agnalt, A. Thorsen, O. S. Kjesbu, G. Dahlø, & K. Jørstad
Is spawning time of marine fish imprinted in the genes? A two-generation experiment on local Atlantic cod (*Gadus morhua* L.) populations from different geographical regions

K. Hüssy, J. O. Coed, E. D. Farrell, L. W. Clausen, & M. W. Clarke
Sexual dimorphism in size, age, maturation, and growth characteristics of boarfish (*Capros aper*) in the Northeast Atlantic

K. Hüssy, H.-H. Hinrichsen, & B. Huwer
Hydrographic influence on the spawning habitat suitability of western Baltic cod (*Gadus morhua*)

H.-H. Hinrichsen, K. Hüssy, & B. Huwer
Spatio-temporal variability in western Baltic cod early life stage survival mediated by egg buoyancy, hydrography and hydrodynamics

Cusk (*Brosme brosme*) and climate change: assessing the threat to a candidate marine fish species under the US Endangered Species Act

H. V. Strehlow, N. Schultz, C. Zimmerman, & C. Hammer
Cod catches taken by the German recreational fishery in the western Baltic Sea, 2005–2010: implications for stock assessment and management

M. Ovegård, K. Berndt, & S-G. Lunneryd
Condition indices of Atlantic cod (*Gadus morhua*) biased by capturing method


Collapse of allis shad, *Alosa alosa*, in the Gironde system (southwest France): environmental change, fishing mortality, or Allee effect?

S. R. McCully, F. Scott, & J. R. Ellis
Lengths at maturity and conversion factors for skates (Rajidae) around the British Isles, with an analysis of data in the literature
M. Cabanellas-Reboredo, J. Alós, M. Palmer, & B. Morales-Nin
Environmental effects on recreational squid jigging fishery catches

C. Xu & D. C. Schneider
Efficacy of conservation measures for the American lobster: reproductive value as a criterion

J. M. Parada, R. Outeiral, E. Iglesias, & J. Molares
Assessment of goose barnacle (Pollicipes pollicipes Gmelin, 1789) stocks in management plans: design of a sampling program based on the harvesters’ experience

G. J. Piet & N. T. Hintzen
Indicators of fishing pressure and seafloor integrity
South Korean seafood market goes "gangnam style"

Like the catchy rap dance number currently taking the world by storm, South Korea’s seafood market is experiencing rapid growth, recovering quickly from recession and increasing its imports.

Monosex prawn culture through androgenic gene silencing

A newly developed technology of producing all-male populations of prawns by gene silencing in the androgenic gland results in a sustainable technology to increase yields for farmers.

Culture practices in a bio-secure shrimp farm in Indonesia

Based on their experiences during a training attachment, the authors describe the culture practices adopted in a typical bio-secure shrimp farm growing Penaeus vannamei shrimp in the country.

A new traceability system for aquacultured shrimp

The successful completion of pilot trials signaled the end of a three-year project to traceability of farmed shrimp in Indonesia; the challenging task of transferring the initiative to the national level comes next.

The FAO-Thiaroye fish processing technique - an innovation in small-scale fisheries

An innovative fish processing technique has proved capable of controlling polycyclic aromatic hydrocarbons produced in fish smoking and drying.
Spatial and Temporal Variation of Whirling Disease Risk in Montana Spring Creeks and Rivers
Ryen A. Neudecker, Thomas E. McMahon, and E. Richard Vincent

Effect of Dietary Supplementation with Achyranthes aspera Seed on Larval Rohu Labeo rohita Challenged with Aeromonas hydrophila R. Chakrabarti and P. K. Srivastava

Effect of Garlic and Ginger Oils on Hematological and Biochemical Variables of Sea Bass Dicentrarchus labrax
Sevdan Yilmaz and Sebahattin Ergin

[Communication] Myxobolus neomotropus Infecting Rainbow Trout in Alaska, a New Geographic Record
Collette R. Beetz, Carla I. Hogge, Theodore R. Meyers, and Jayde A. Ferguson

[Communication] Spring Viremia of Carp Virus in Minnehaha Creek, Minnesota
Nicholas B. D. Phelps, Aníbal G. Arrién, Sunit K. Mor, Sagar M. Goyal, Janet V. Wang, Ranjit Bhagvyan, and Tim Monahan

The Use of a One-Step Real-Time Reverse Transcription Polymerase Chain Reaction (rRT-PCR) for the Surveillance of Viral Hemorrhagic Septicemia Virus (VHSV) in Minnesota
Nicholas B. D. Phelps, Devi P. Patnayak, Yin Jiang, and Sagar M. Goyal

[Communication] The Impact of Mitochondrial and Thermal Stress on the Bioenergetics and Reserve Respiratory Capacity of Fish Cell Lines
Benjamin H. Beck and S. Adam Fuller

Clinical and Pathological Effects of the Polyopisthocotylean Monogenean, Ganacallum macrona in White Bass

Impact of Thiamine Deficiency on T-cell Dependent and T-cell Independent Antibody Production in Lake Trout
Christopher A. Ottinger, Dale C. Honeyfield, Christine L. Densmore, and Lake R. Iwanowicz

Predicted Redistribution of Ceratomyxa shasta Genotypes with Salmonid Passage in the Deschutes River, Oregon
Matthew E. T. Stinson and Jerri L. Bartholomew
### CONTENTS:

**Volume 81 • Number 7 • December 2012 • Pages 2103–2276**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Huntingford, F. A., The physiology of fish behaviour: a selective review of developments over the past 40 years</td>
<td>2103</td>
</tr>
<tr>
<td>Oliveira, R. F., Social plasticity in fish: integrating mechanisms and function</td>
<td>2127</td>
</tr>
<tr>
<td>Ebbesson, L. O. E. and Braithwaite, V. A., Environmental effects on fish neural plasticity and cognition</td>
<td>2151</td>
</tr>
<tr>
<td>Sloman, K. A. and McNeil, P. L., Using physiology and behaviour to understand the responses of fish early life stages to toxicants</td>
<td>2175</td>
</tr>
<tr>
<td>Fraser, T. W. K., Fjeldal, P. G., Skjørraesen, J. E., Hansen, T. and Mayer, I., Triploidy alters brain morphology in pre-smolt Atlantic salmon <em>Salmo salar</em>; possible implications for behaviour</td>
<td>2199</td>
</tr>
<tr>
<td>Shaw, J. C. and Øverli, Ø., Brain-encysting trematodes and altered monoamine activity in naturally infected killifish <em>Fundulus parvipinnis</em></td>
<td>2213</td>
</tr>
<tr>
<td>Slavík, O. and Horšť, P., Dien dualism in the energy consumption of the European catfish <em>Silurus glanis</em></td>
<td>2223</td>
</tr>
<tr>
<td>Gebhardt, K., Böhme, M. and von der Emde, G., Electrocommunication behaviour during social interactions in two species of pulse-type weakly electric fishes (Mormyridae)</td>
<td>2235</td>
</tr>
<tr>
<td>Fechler, K., Holtkamp, D., Neussel, G., Sanguinetti-Scheck, J. L., Budelli, R. and von der Emde, G., Mind the gap: the minimal detectable separation distance between two objects during active electrolocation</td>
<td>2255</td>
</tr>
</tbody>
</table>
Contents

Special Issue Introduction ................................................................. 287
   Ping Sun Leung and Daniel Huppert

Federal Fishery Policy and the Geographic Distribution of Commercial U.S. West Coast ........ 289
Fish Landings: Insights from the 2003 Federal Groundfish Permit Buyback
   Philip Watson and Timothy Johnson

Using Conditional Lorenz Curves to Examine Consolidation in New Zealand .................. 303
Commercial Fishing
   Kobi Abayomi and Tracy Yandle

Economic Analysis of the Targeting Strategy of Artisanal Fishers in Dominica .................. 323
   Brent Theophilie and Sharon D. Hutchinson

Modeling the Behavior of Marlin Anglers in the Western Pacific ................................ 343
   John Duffield, Chris Neher, Stewart Allen, David Patterson, and Brad Gentner

Substitutions between Fish and Seafood Products at the US National Retail Level .......... 359
   Benissa Chidmi, Terry Hanson, and Giap Nguyen

Analysis of a Demand System for Unbreaded Frozen Seafood in the United States ........ 371
Using Store-level Scanner Data
   Kehar Singh, Madan M. Dey, and Prasanna Surathkal

Economics and Fisheries Policy: A Survey of NAAFE Members .................................. 389
   Gunnar Knapp

Books Reviewed

   Handbook of Marine Fisheries Conservation and Management .................................. 397
   Edited by R. Quentin Grafton, Ray Hilborn, Dale Squires, Maree Tait, and Meryl Williams
   Reviewed by Lee G. Anderson

MRE Reviewers 2012 ........................................................................ 401

Contents of Volume 27 ...................................................................... 403
CONTENTS

Preliminary analysis on the interdecadal variation characteristics of typhoon over the Northwestern Pacific in the past sixty years .............................................. YU Fan et al. (03)

Internal tides in the northern South China Sea from 20-day in-situ mooring observations in 1998 ................................................................. CAI Yang et al. (12)

Comparison of spectral partitioning techniques for wind wave and swell .......................................................... LI Shui-qing et al. (24)

Analysis of tidal and residual currents across semi-enclosed bay mouth based on shipboard ADCP measurements ........................................ LI Xi-bin et al. (37)

An approach to estimate tidal dissipation with single-point high-frequency ground wave radar data .......................................................... MAO Hua-bin et al. (46)

Distribution of clay minerals in surface sediments off Yangtze River estuary ........................................................... LAN Xian-hong et al. (56)

Changes in magnetic susceptibility and grain size of Holocene sediments of the Pearl River estuary and climate changes reflected by them ........ CAO Ling-long et al. (70)

Correction of seabed layer thickness in processing the subbottom profile data ................................................................. WANG Fang-qi et al. (83)
1433 Relationship between Fish Size and Upper Thermal Tolerance
Matthew S. Recsean, Matthew P. Zeigler, David L. Ward, Scott A. Bonar, and Colleen A. Caldwell

1439 An Individual-Based Model of Ontogenetic Migration in Reef Fish Using a Biased Random Walk
Steven Saul, David Die, Elizabeth N. Brooks, and Karen Burns

1453 Evaluating the Performance of Vertical Longlines to Survey Reef Fish Populations in the Northern Gulf of Mexico
Kevin C. Gregolis, Lela S. Schlenker, J. Marcus Drymon, John F. Maresko, and Sean P. Powers

1465 [Note] Empirical Evidence of Fall Spawning by Atlantic Sturgeon in the James River, Virginia
Matthew T. Balazik, Greg C. Garman, Joel P. Van Eenennaam, Jerre Mohler, and L. Curry Woods III

1472 [Note] Short-Term Effects of Formalin and Ethanol Fixation and Preservation Techniques on Weight and Size of Fish Eggs
E. A. Frimpong and M. L. Henebry

1480 Effect of Feeding–Fasting Cycles on Oxygen Consumption and Bioenergetics of Female Yellow Perch
Travis W. Schaeffer, Daniel E. Speangler, Casey W. Schoenebeck, Michael L. Brown, and Steven R. Chipp

1492 Age, Growth, Survival, and Maturity of Lake Trout Morphotypes in Lake Mistassini, Quebec
Michael J. Hansen, Nancy A. Nate, Charles C. Krueger, Mara S. Zimmerman, Hanna G. Kruckman, and William W. Taylor

1504 [Note] A Comparison of Early Development between a Domesticated Stock of Coho Salmon and Its Parental Stock
Kathleen G. Neely, James M. Myers, and Jeffrey J. Hart

1510 Utility of Alligator Gar Age Estimates from Otoliths, Pectoral Fin Rays, and Scales
David L. Buckner, Nathan G. Smith, and Kerry S. Reeves

1520 Upstream Movement of Juvenile Coho Salmon in Relation to Environmental Conditions in a Culvert Test Bed

1532 Fish Community Response to Habitat Alteration: Impacts of Sand Dredging in the Kansas River
Jason Fischer, Craig Pankert, and Melinda Daniels

1545 Defining Life Histories of Precocious Male Parr, Minijack, and Jack Chinook Salmon Using Scale Patterns
June Johnson, Tyler Johnson, and Timothy Copeland

1557 Landscape Genetics Reveals Population Subdivision in Bering Sea and Aleutian Islands Pacific Cod
Ingrid Spies

1574 Migratory Variation in Mackenzie River System Broad Whitefish: Insights from Otolith Strontium Distributions
L. N. Harris, T. N. Loewen, J. D. Reist, N. M. Halden, J. A. Babaluk, and R. F. Talman

1586 Susceptibility of Juvenile Steelhead to Avian Predation: the Influence of Individual Fish Characteristics and River Conditions
David L. Jossetetter, Allen F. Evans, Daniel D. Roby, and Ken Collins

1600 Detection of Threatened Delta Smelt in the Gut Contents of the Invasive Mississippi Silverside in the San Francisco Estuary Using TaqMan Assays
Melinda R. Baerwald, Brian M. Schreier, Gregg Schuemer, and Bernie May

1608 Identifying Cisco Refuge Lakes in Minnesota under Future Climate Scenarios
Xing Fang, Lipping Jiang, Peter C. Jacobson, Heinz G. Stelf, Seoeb R. Alam, and Donald L. Periera

1622 Migration Strategies of Adult Chinook Salmon Runs in Response to Diverse Environmental Conditions in the Klamath River Basin
Joshua S. Strange

1637 A Direct-Gradient Multivariate Index of Biotic Condition
L. E. Miranda, J. N. Aycock, and K. J. Kilgore

1649 Temperature-Related Changes in Habitat Quality and Use by Bonneville Cutthroat Trout in Regulated and Unregulated River Segments
Ryan W. Hillyard and Ernest R. Keeley
<table>
<thead>
<tr>
<th>Page</th>
<th>Title and Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>547</td>
<td>Partial or Total Replacement of Soybean Meal by Cottonseed Meal in Practical Diets for Chinese Mitten Crab, <em>Eriocheir sinensis</em>: Effects on Oxygen Consumption, Ammonia Excretion, O:N Ratio and Amino Transf erase Activities</td>
</tr>
<tr>
<td>555</td>
<td>Low Genetic Variation Suggest Single Stock of Kawakawa <em>Euthynnus affinis</em> (Cantor, 1849) along the Indian Coast</td>
</tr>
<tr>
<td>565</td>
<td>Microbial Loop Populations: Their Abundances and Trophodynamics in the Gulf of Aqaba, Red Sea Hamed A. El-Serehy, Khaleed A. Al-Rasheid, Hesham Shafik</td>
</tr>
<tr>
<td>575</td>
<td>The Influence of Substitution of Dietary Fish Oil with Different Vegetable Oils on Performance and Fatty Acid Composition of Brown Trout, <em>Salmo trutta</em> Murat Arslan, Necdet Sirkecioglu, Abdulkadir Bayir, Harun Arslan, Mevlut Aras</td>
</tr>
<tr>
<td>585</td>
<td>Marine Sediment Contamination and Toxicity in Izmir Bay and Mytilene Harbor (Aegean Sea) Rahime Oral, Maria Kostopoulou, Marco Guida, Anastasia Nikolau, Françoise Quinioiu, Marco Trifuoggi, Ilaria Borriello, Maria Vagi, Antonello D'Ambara, Giovanni Pagano</td>
</tr>
<tr>
<td>595</td>
<td>A Study on the Trophic Status and Phytoplanktonic Algae of Mamasin Dam Lake (Aksaray-Turkey) Tahir Ateci, Ali Alas</td>
</tr>
<tr>
<td>603</td>
<td>May Simultaneous Exposure to Different Heavy Metals Influence the Bioaccumulation of Each Metal by <em>Littorina saxatilis</em> (Gastropoda; Littoriniidae) Arash Javanshir</td>
</tr>
<tr>
<td>613</td>
<td>Age, Growth and Condition Index of <em>Venerupis decussata</em> (Linnaeus, 1758) in the Eastern Adriatic Sea Ivana Juric, Ivana Butelić, Daria Ezgeta-Balić, Nedo Vrgoč, Melita Peharda</td>
</tr>
<tr>
<td>619</td>
<td>Comparative Reproductive and Growth Performance of <em>Clarias gariepinus</em> (Burchell, 1822) and Its Hybrid Induced with Synthetic Hormone and Pituitary Gland of <em>Clarias gariepinus</em> Prince Emeka Ndimele, Fatai Gbolahan Owodeinde</td>
</tr>
<tr>
<td>635</td>
<td>Effects of Dietary Protein and Lipid Levels on Growth Performances of Two African Cichlids (<em>Pseudotropheus socolofi</em> and <em>Haplochromis ahli</em>) Fatime Erdoğan, Mete Erdoğan, Erkan Gümüş</td>
</tr>
</tbody>
</table>

(continued on inside back cover)
641 Inclusion of Low Levels of Blood and Feathermeal in Practical Diets for Gulthead Seabream (Sparus aurata)
Natacha Nogueira, Nereida Cordeiro, Carlos Andrade, Tiago Aires

651 Genetic Diversity of Cyprinion macroutomus Heckel, 1843 (Teleostei: Cyprinidae) in Anatolia
Sevgi Durna Daştun, Fevzi Bardakci, Naci Degerli

661 The Effect of the Replacement of Fish oil with Animal Fats on the Growth Performance, Survival and Fatty Acid Profile of Rainbow Trout Juveniles, Oncorhynchus mykiss
Abdulkadir Bayır, Kürşat Bayraktar

667 Effect of Anesthesia with Clove Oil and Benzocaine on Feed Intake in Siberian Sturgeon (Acipenser baerii Brandt, 1869)
Bilal Akbulut, Eytip Çakmak, Osman Tolga Özel, Naşife Dülger

675 First Record of Two Species of Parasitic Copepods on Immigrant Pufferfishes (Tetraodontiformes: Tetraodontidae) Caught In The Eastern Mediterranean Sea
Argun Akif Özak, Ibrahim Demirkale, Alper Yanar

683 Length–Weight Relationship of the Crucian carp, Carassius carassius in Relation to Water Quality, Sex and Season in Some Lentic Water Bodies of Kashmir Himalayas
U.R. Zargar, A.R. Yousuf, Basharat Mushtaq, Dilafroza Jan

691 Relative Efficiencies of Artemia nauplii, Dry Food and Mixed Food Diets in Intensive Rearing of Larval Crucian Carp (Carassius carassius L.)
Ferenc Demény, Műllerné Magdolna Trenovszki, Solt Sokoray-Varga, Árpád Hegyi, Béla Urbányi, Daniel Žarski, Bernadett Ács, Branko Miljanović, András Szepesiúr, Tamás Műller

699 Antibiotic Resistance Profiles of Enteric Bacteria Isolated from Kucağyczekmece Lagoon (Istanbul – Turkey)
Nuket Sivri, Cenal Sandallı, Osman Birol Özgünsüz, Feyza Colakoglu, Dilek Dogan

709 Long Term Investigation of SST Regime Variability and Its Relationship with Phytoplankton in the Caspian Sea Using Remotely Sensed AVHRR and SeaWIFS Data
Mehmet Tahir Kavak

719 Species Composition and Distribution of Mollusca in Relation to Water Quality
Melek Zeybek, Hasan Kalyoncu, Ömer Osman Ertan

SHORT PAPER

729 Reproductive Features of Big Scale-Sand Smelt, Atherina boyeri (Risso, 1810), an Exotic Fish in Lake Eğirdir (Isparta, Turkey)
Fahrettin Küçük, Salim Serkan Güçlü, İskender Güle, Zekiye Güçlü, Nezire Lерzan Çiçek, Gürcan Diken
ANIMAL BEHAVIOR

Sex Ratio and Mating Behavior in the Calanoid Copepod *Pseudodiaptomus annandalei*

Burrows with Chimneys of the Fiddler Crab *Uca thayeri*: Construction, Occurrence, and Function

COMPARATIVE PHYSIOLOGY

A Shift to an Ion Regulatory Role by Gills of a Semi-Terrestrial Crab, *Ocypode stimpsoni*

ECOLOGY

Soil Nematode Abundance and Diversity in Different Forest Types at Changbai Mountain, China

Spatiotemporal Variations in the Abundance, Biomass, Fecundity, and Production of *Oithona brevicornis* (Copepoda: Cyclopoida) in a West African Tropical Coastal Lagoon (Grand-Lahou, Côte d'Ivoire)

Temperature Effects on the Egg Development Time and Hatching Success of Three *Acartia* Species (Copepoda: Calanoida) from the Strait of Malacca

Individual Specialization in the Hunting-wasp *Trypoxylon (Trypargilum) agamemnon* Richards (Hymenoptera: Crabronidae)

An Unusually High Abundance and Diversity of the Teredid Bivalves (Gastropoda: Conoidea) in Nha Trang Bay, Vietnam

Size-dependent Foraging on Aquatic and Terrestrial Prey by the Endangered Taiwan Salmon *Oncorhynchus masou* from the Southeastern Taiwan Strait: Linked to Seasonal Monsoon-driven Currents

Reproductive Patterns of Captive Male and Female Monocled Cobra, *Naja kaouthia* (Lesson, 1831)

Summer Diet and Distribution of the Red Panda (*Ailurus fulgens*) in Dhorpatan Hunting Reserve, Nepal

Biodiversity of Marine Invertebrates on Rocky Shores of Dokdo, Korea
New Additions to Library

I. Periodicals

2. Agricultural Research : Vol.61 (1) Jan '13
3. Agriculture Today : Vol.15 (12) Dec '12
5. Aquaculture Asia : Vol.17 (2) Apr-Jun '12
6. Aquaculture Asia : Vol.17 (3) Jul-Sep '12
7. Aquatic Living Resources : Vol.25 (3) Jul/Sep '12
11. Canadian Journal of Fisheries and Aquatic Sciences : Vol. 69 (10) Oct '12
12. Copeia : No. 4, Dec '12
15. Current Science : Vol. 104 (2) Jan '13
20. Down To Earth : Vol.21 (16) Jan '13
22. Down To Earth : Vol. 21 (18) Feb '13
24. Economic and Political Weekly : Vol. 48 (3) Jan '13
25. Economic and Political Weekly : Vol. 48 (4) Jan '13
27. Economic and Political Weekly : Vol. 48 (6) Feb '13
59. Kasetsart University Fisheries Research Bulletin : Vol.36 (2) May '12
60. Marine Fisheries Census 2010 : Union Territories of Andaman & Nicobar and Lakshadweep Islands
63. National Geographic : Vol. 223 (1) Jan '13
64. National Geographic : Vol. 223 (2) Feb '13
71. Ocean and Polar Research : Vol.34 (4) Dec '12
72. Pacific Science : Vol.66 (4) Oct '12
73. Recent Topics in Plant, Medical and Animal Virology. " Virocon-2012", Indian Virological Society , 8-10 November 2012 on "Immunology and Management of Viral Diseases in 21st Century.Indian Veterinary Research Institute and Project Directorate on Foot and Mouth Disease, Mukteswar
74. Resonance : Vol.17 (12) Dec '12
75. Safety recommendations for decked fishing vessels of less than 12 metres in length and undecked fishing vessels (FAO)
77. Seafood Export Journal : Vol.43 (1) Jan '13

29


80. Swamysnews: No. 01, Jan '13

81. Swamysnews: No. 12, Dec '12


84. Turkish Journal of Fisheries and Aquatic Sciences: Vol. 12 (3) Sep '12

85. Turkish Journal of Fisheries and Aquatic Sciences: Vol. 12 (Sp. Iss.) Sep '12

86. Zoological Studies: Vol. 51 (5) Sep '12