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Contents of Selected Journals

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Contents of Selected Journals

September 2014



Library & Documentation Centre

CMFRI, Cochin - 18

Contents

Sl. No.	Title	Vol./No.	Mon./Yr	Page No.
1	Aquaculture Research	45 (9)	Aug '14	1
2	Biological Bulletin	226 (3)	2014	2
3	Canadian J. of Fisheries and Aquatic Sciences	71 (5)	May '14	3-4
4	Fish and Fisheries	15 (3)	Sep '14	5
5	Fish and Shellfish Immunology	40 (1)	Sep '14	6-7
6	Fish Pathology	49 (2)	Jun '14	8
7	Fisheries	39 (7)	Jul '14	9
8	Fisheries	39 (8)	Aug '14	10
9	Fishery Bulletin	112 (2-3)	Apr/Jul '14	11-12
10	Helgoland Marine Research	68 (3)	Sep '14	13
11	Journal of Aquatic Animal Health	26 (2)	Jun '14	14
12	Journal of Fish Biology	85 (2)	Aug '14	15-16
13	Journal of Fish Diseases	37 (9)	Sep '14	17
14	Journal of Indian Ocean Studies	22 (2)	Aug '14	18
15	Journal of Molluscan Studies	80 (3)	Aug '14	19
16	Memoirs of Faculty of Fish. Kagoshima University	62	2013	20
17	North American Journal of Aquaculture	76 (3)	Jul '14	21
18	North American Journal of Fisheries Management	34 (3)	Jun '14	22
19	Oceanic Linguistics	53 (1)	Jun '14	23
<i>New Additions to Library</i>				
20	Periodicals			24-25



Aquaculture Research

Volume 45, Number 9, August 2014

Contents

Original Articles

- 1425 Animal performance and reproductive aspects of female *Rhamdia queien* fed on different levels of digestible energy
L Tessaro, C P R de Toledo, G Neumann, R A Krause, F Meurer, M R M Natali and R A Bombardelli
- 1434 Bottom culture of the sea cucumber *Apostichopus japonicus* Selenka (Echinodermata: Holothuroidea) in a fish farm, southern China
Z Yu, Y Zhou, H Yang and C Hu
- 1442 Effect of stocking biomass on solids, phytoplankton communities, common off-flavors, and production parameters in a channel catfish biofloc technology production system
B W Green, K K Schrader and P W Perschbacher
- 1459 Partial to total replacement of fishmeal by poultry by-product meal in diets for juvenile rainbow trout (*Oncorhynchus mykiss*) and their effect on fatty acids from muscle tissue and the time required to retrieve the effect
G Parés-Sierra, E Durazo, M A Ponce, D Badillo, G Correa-Reyes and M T Viana
- 1470 Biological performance of *Octopus vulgaris* in 'integrated aquaculture' models: effect of two potential fresh diets, sex and sexual maturation during the grow-out phase
J Estefanell, J Roo, R Guiaro, M Izquierdo and J Socorro
- 1481 Isolation and characterization of Indian betanodavirus strain from infected farm-reared Asian seabass *Lates calcarifer* (Bloch, 1790) juveniles
K R John, M R George, B Jeyatha, R Saravanakumar, P Sundar, K P Jithendran and E O Koppang
- 1489 Swimbladder inflation, growth and survival of yellowtail kingfish *Seriola lalandi* (Valenciennes, 1833) larvae under different temperature, light and oxygen conditions
L D Woolley, D S Fielder and J G Qin
- 1499 The impact of elevated water nitrate concentration on physiology, growth and feed intake of African catfish *Clarias gariepinus* (Burchell 1822)
E Schram, J A C Roques, W Abibek, Y Yokohama, T Spanings, P de Vries, S Bierman, H van de Vis and G Filik
- 1512 Stress Gene Expression in *Crassostrea gigas* (Thunberg, 1793) in response to experimental exposure to the toxic dinoflagellate *Prorocentrum lima* (Ehrenberg) Dodge, 1975
R de J Romero-Geraldo and N Y Hernández-Saavedra
- 1523 An experimental study on the compensatory growth of tongue sole, *Cynoglossus semilaevis* (Günther, 1873), following lower temperature manipulation
J Fang, X Tian, S Dong, J Fang and J Zhang
- 1533 Effect of dietary phosphorus supplementation on utilization of algae in the grow-out diet of Nile tilapia *Oreochromis niloticus*
E E-S Hussein, K Dabrowski, D M S D El-Saidy and B-J Lee
- 1545 Behaviour of European sea bass, *Dicentrarchus labrax* L., in cages – impact of early life rearing conditions and management
N Papandroulakis, K Lika, T S Kristiansen, F Oppedal, P Divanach and M Pavlidis
- 1559 Glutamine precursor supplementation increases glutamine synthetase gene expression in intestine of common carp (*Cyprinus carpio*)
X Dong, Y Wei, J Yu, Y Wang and Q Xu

Short Communications

- 1567 A mixture of fish oil and soybean oil as a dietary lipid source prevents precocity and promotes growth in juvenile *Macrobrachium nipponense* (De Haan)
Z Ding, L Chen, Z Du, H Jiang, S Sun and E Li
- 1573 Characterization of enzyme-producing bacteria isolated from the gut of Asian seabass, *Lates calcarifer* and milkfish, *Chanos chanos* and their application for nutrient enrichment of feed ingredients
D De, T K Ghoshal and R Ananda Raja

The Journal is indexed by A S P A Aquaculture Abstracts (Online Edition) (Aquatic Sciences & Fisheries Abstracts), AgBiotech News and Information, Agricola, C R I S, Agricultural Engineering Abstracts, Agroforestry Abstracts (Online Edition), Animal Breeding Abstracts, Aquatic Sciences & Fisheries Abstracts, BIOBASE, Biological Abstracts, BIOSIS Previews, Biotechnology & Bioengineering Abstracts, C S A Animal Behavior Abstracts (Cambridge Scientific Abstracts), Current Awareness in Biological Sciences, Current Contents, Dairy Science Abstracts, Environment Abstracts, Environment Abstracts Annual, Environmental Issues & Policy Index, Environmental Science and Pollution Management, Forestry Abstracts, Genetics Abstracts, GEOBASE, Helminthological Abstracts, Horticultural Science Abstracts, Index Veterinarius, Irrigation and Drainage Abstracts, Malaria Abstracts Online, Microbiology Abstracts, Nutrition Abstracts and Reviews, Oceanic Abstracts, Ornamental Horticulture, Pig News & Information, Plant Breeding Abstracts, Postharvest News and Information, Potato Abstracts, Poultry Abstracts, Protozoological Abstracts, Review of Agricultural Entomology & Review of Medical and Veterinary Entomology, Review of Aromatic and Medicinal Plants, Review of Medical and Veterinary Parasitology, Rice Abstracts, Rural Development Abstracts, Soils and Fertilizers, Sugarcane Abstracts (Online Edition), Sugar Industry Abstracts, Tropical Diseases Bulletin, Veterinary Bulletin, Wheat, Barley and Triticale Abstracts, Wildlife Review Abstracts, World Agricultural Economics and Rural Sociology Abstracts, Zoological Record

THE BIOLOGICAL BULLETIN

CONTENTS

VOLUME 226, No. 3: JUNE 2014

CALCIFICATION IN A CHANGING OCEAN

Byrne, Maria, and Gretchen E. Hofmann

Calcification in a Changing Ocean: Perspectives on a Virtual Symposium in *The Biological Bulletin* 167

REVIEWS

Doo, Steve S., Kazuhiko Fujita, Maria Byrne, and Sven Uthicke

Fate of calcifying tropical symbiont-bearing large benthic Foraminifera: Living sands in a changing ocean 169

Lough, Janice M., and Neal E. Cantin

Perspectives on massive coral growth rates in a changing ocean 187

Smith, Abigail M.

Growth and calcification of marine bryozoans in a changing ocean 203

Kroeker, Kristy J., Eric Sanford, Brittany M. Jellison, and Brian Gaylord

Predicting the effects of ocean acidification on predator-prey interactions: A conceptual framework based on coastal molluscs 211

Dubois, Philippe

The skeleton of postmetamorphic echinoderms in a changing world 223

Evans, Tyler G., and Priscilla Watson-Wynn

Effects of seawater acidification on gene expression: Resolving broader-scale trends in sea urchins 237

RESEARCH PAPERS

Ordoñez, Alexandra, Christopher Doropoulos, and Guillermo Diaz-Pulido

Effects of ocean acidification on population dynamics and community structure of crustose coralline algae 255

Wright, John M., Laura M. Parker, Wayne A. O'Connor, Mark Williams, Peter Kube, and Pauline M. Ross

Populations of Pacific oysters *Crassostrea gigas* respond variably to elevated CO₂ and predation by *Morula marginata* 269

Ziveri, Patrizia, Marcello Passaro, Alessandro Incarbone, Marco Milazzo, Riccardo Rodolfo-Metalpa, and Jason M. Hall-Spencer

Decline in coccolithophore diversity and impact on coccolith morphogenesis along a natural CO₂ gradient 282

Index for Volume 226

291

Canadian Journal of Fisheries and Aquatic Sciences

Volume 71, Number 5, May 2014

Journal canadien des sciences halieutiques et aquatiques

Volume 71, numéro 5, mai 2014

ARTICLES

ARTICLES

**Christopher D. Todd, Bryce D.M. Whyte,
Julian C. MacLean, Crawford W. Revie,
Michael E. Lonergan, and Nora N. Hanson**

645–655

A simple method of dating marine growth circuli on scales of wild one sea-winter and two sea-winter Atlantic salmon (*Salmo salar*)

**Danika Kleiber, Leila M. Harris,
and Amanda C.J. Vincent**

656–664

Improving fisheries estimates by including women's catch in the Central Philippines

**Lauren Emily Barth, W. Gary Sprules,
Mathew Wells, and Melissa Coman**

665–674

Seasonal changes in the diel vertical migration of *Chaoborus punctipennis* larval instars

Scott W. Miller and Sarah Judson

675–687

Responses of macroinvertebrate drift, benthic assemblages, and trout foraging to hydropeaking

**Andrew B. Harbicht, Mohammed Alshamlih,
Chris C. Wilson, and Dylan J. Fraser**

688–697

Anthropogenic and habitat correlates of hybridization between hatchery and wild brook trout

**Wesley A. Larson, James E. Seeb,
Carita E. Pascal, William D. Templin,
and Lisa W. Seeb**

698–708

Single-nucleotide polymorphisms (SNPs) identified through genotyping-by-sequencing improve genetic stock identification of Chinook salmon (*Oncorhynchus tshawytscha*) from western Alaska

Nicolas Bez and Cheikh-Baye Braham

709–718

Indicator variables for a robust estimation of an acoustic index of abundance

Continued on inside back cover / Suite au verso



Front cover: Ihoko Saito/Toshiyuki Tajima/Dex Image/Getty Images.

Page couverture : Ihoko Saito/Toshiyuki Tajima/Dex Image/Getty Images.



M.U. Mohamed Anas, Kenneth A. Scott, Ryan N. Cooper, and Björn Wissel	719–732	Zooplankton communities are good indicators of potential impacts of Athabasca oil sands operations on downwind boreal lakes
Nick Ellis, Francis Pantus, and C. Roland Pitcher	733–746	Scaling up experimental trawl impact results to fishery management scales — a modelling approach for a “hot time”
T.J. Arciszewski, A.J. Farwell, M.R. Servos, T.D. Jardine, and K.R. Munkittrick	747–755	Differential recovery of $\delta^{13}\text{C}$ in multiple tissues of white sucker across age classes after the closure of a pulp mill
Chris K. Elvidge and Grant E. Brown	756–762	Predation costs of impaired chemosensory risk assessment on acid-impacted juvenile Atlantic salmon (<i>Salmo salar</i>)
Denis Roy, David C. Hardie, Margaret A. Treble, James D. Reist, and Daniel E. Ruzzante	763–774	Evidence supporting panmixia in Greenland halibut (<i>Reinhardtius hippoglossoides</i>) in the Northwest Atlantic
	PERSPECTIVE	PERSPECTIVE
Stuart A. Ludsin, Kristen M. DeVanna, and Ralph E.H. Smith	775–794	Physical–biological coupling and the challenge of understanding fish recruitment in freshwater lakes

CONTENTS – VOLUME 15 ISSUE 3 SEPTEMBER 2014

ORIGINAL ARTICLES

- 359 *Empirical move-on rules to inform fishing strategies: a New England case study*
D C Dunn, A M Boustany, J J Roberts,
E Brazer, M Sanderson, B Gardner and
P N Halpin
- 376 *Recent advances of genome mapping and marker-assisted selection in aquaculture*
G H Yue
- 397 *A meta-analysis of steady undulatory swimming*
J F van Weerden, D A P Reid and
C K Hemelrijk
- 410 *Using flow guilds of freshwater fish in an adaptive management framework to simplify environmental flow delivery for semi-arid riverine systems*
L J Baumgartner, J Conallin, I Wooden,
B Campbell, R Gee, W A Robinson and
M Mallen-Cooper
- 428 *Is fisheries governance possible?*
J P Johnsen
- 445 *Coastal catch transects as a tool for studying global fisheries*
R Watson and D Pauly
- 456 *Patterns and predictors of fish dispersal in rivers*
J Radinger and C Wolter

- 474 *China's distant-water fisheries in the 21st century*
D Pauly, D Belhabib, R Blomeyer,
W W W L Cheung,
A M Cisneros-Montemayor, D Copeland,
S Harper, V W Y Lam, Y Mai,
F Le Manach, H Österblom, K M Mok,
L van der Meer, A Sanz, S Shon,
U R Sumaila, W Swartz, R Watson,
Y Zhai and D Zeller
- 489 *The understudied and underappreciated role of predation in the mortality of fish released from fishing gears*
G D Raby, J R Packer, A J Danylchuk and
S J Cooke
- 506 *Origins of the bottom trawling controversy in the British Isles: 19th century witness testimonies reveal evidence of early fishery declines*
R H Thurstan, J P Hawkins and C M Roberts

GHOTI

- 523 *Alternative ontogenies and developmental plasticity: implications for ecological and evolutionary studies on species complexes*
L Vilizzi and V Kováč

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Also covered in the abstract and citation database SCOPUS®.
Full text available on ScienceDirect®

Contents

Review Papers

- Reshi, M. L., Wu, J.-L., Wang, H.-V., Hong, J.-R. RNA interference technology used for the study of aquatic virus infections 14

- Song, S. K., Beck, B. R., Kim, D., Park, J., Kim, J., Kim, H. D., Ringø, E. Prebiotics as immunostimulants in aquaculture: A review 40

Regular Papers

- Anbazahan, S. M., Shanthi Mari, L. S., Yogeshwari, G., Jagruthi, C., Thirumurugan, R., Arockiaraj, J., Joseph Velanganni, A. A., Krishnamoorthy, P., Balasundaram, C., Harikrishnan, R. Immune response and disease resistance of carotenoids supplementation diet in *Cyprinus carpio* against *Aeromonas hydrophila* 9

- Guardiola, F. A., Cuesta, A., Abellán, E., Meseguer, J., Esteban, M. A. Comparative analysis of the humoral immunity of skin mucus from several marine teleost fish 24

- Lee, Y., Elvitigala, D. A. S., Whang, I., Lee, S., Kim, H., De Zoysa, M., Oh, C., Kang, D.-H., Lee, J. Structural and functional characterization of a novel molluskan ortholog of TRAF and TNF receptor-associated protein from disk abalone (*Haliotis discus discus*) 32

- Nguyen, V. D., Pham, T. T., Nguyen, T. H. T., Nguyen, T. T. X., Hoj, L. Screening of marine bacteria with bacteriocin-like activities and probiotic potential for ornate spiny lobster (*Panulirus ornatus*) juveniles 49

- Ren, L., Wang, R., Xu, T. Three representative subtypes of caspase in miiuy croaker: Genomic organization, evolution and immune responses to bacterial challenge 61

- Ng, T. H., Hung, H.-Y., Chiang, Y.-A., Lin, J.-H., Chen, Y.-N., Chuang, Y.-C., Wang, H.-C. WSSV-induced crayfish Dscam shows durable immune behavior 78

CONTENTS—Continued



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CONTENTS—Continued from Outside Back Cover

Powell, M. D., Yousaf, M. N., Rasmussen, K. J., Köllner, B., Zou, J., Secombes, C., Speare, D. J. Immunohistochemical localization of inflammatory cells and cell cycle proteins in the gills of <i>Loma salmonae</i> infected rainbow trout (<i>Oncorhynchus mykiss</i>)	91
Liu, X., Wu, H., Chang, X., Tang, Y., Liu, Q., Zhang, Y. Notable mucosal immune responses induced in the intestine of zebrafish (<i>Danio rerio</i>) bath-vaccinated with a live attenuated <i>Vibrio anguillarum</i> vaccine	99
Iwanowicz, L. R., Stafford, J. L., Patlño, R., Bengten, E., Miller, N. W., Blazer, V. S. Channel catfish (<i>Ictalurus punctatus</i>) leukocytes express estrogen receptor isoforms ER α and ER β 2 and are functionally modulated by estrogens	109
Li, S., Jia, Z., Li, X., Geng, X., Sun, J. Calmodulin is a stress and immune response gene in Chinese mitten crab <i>Eriocheir sinensis</i>	120
Osuna-Jiménez, I., Abril, N., Vioque-Fernández, A., Gómez-Ariza, J. L., Prieto-Álamo, M.-J., Pueyo, C. The environmental quality of Doñana surrounding areas affects the immune transcriptional profile of inhabitant crayfish <i>Procambarus clarkii</i>	136
Yang, L., Yang, G., Zhang, X. The miR-100-mediated pathway regulates apoptosis against virus infection in shrimp	146
Shang, X., Su, J., Wan, Q., Su, J., Feng, X. CpG methylation in the 5'-flanking region of <i>LGP2</i> gene lacks association with resistance/susceptibility to GCRV but contributes to the differential expression between muscle and spleen tissues in grass carp, <i>Ctenopharyngodon idella</i>	154
Li, S., Li, X., Chen, X., Geng, X., Sun, J. ATP release channel Pannexin1 is a novel immune response gene in Japanese flounder <i>Paralichthys olivaceus</i>	164
Wu, Y.-S., Huang, S.-L., Nan, F.-H., Chang, C.-S., Hsiao, C.-M., Lai, K.-C., Chen, S.-N. Over-inhibition of NADPH oxidase reduce the wound healing in liver of finfish	174
Meng, Q., Hou, L., Zhao, Y., Huang, X., Huang, Y., Xia, S., Gu, W., Wang, W. iTRAQ-based proteomic study of the effects of <i>Spiroplasma eriocheiris</i> on Chinese mitten crab <i>Eriocheir sinensis</i> hemocytes	182
Yin, X.-L., Li, Z.-J., Yang, K., Lin, H.-Z., Guo, Z.-X. Effect of guava leaves on growth and the non-specific immune response of <i>Penaeus monodon</i>	190
Luo, J.-B., Feng, L., Jiang, W.-D., Liu, Y., Wu, P., Jiang, J., Kuang, S.-Y., Tang, L., Zhang, Y.-A., Zhou, X.-Q. The impaired intestinal mucosal immune system by valine deficiency for young grass carp (<i>Ctenopharyngodon idella</i>) is associated with decreasing immune status and regulating tight junction proteins transcript abundance in the intestine	197
Reyes-Becerril, M., Angulo, C., Estrada, N., Murillo, Y., Ascencio-Valle, F. Dietary administration of microalgae alone or supplemented with <i>Lactobacillus sakei</i> affects immune response and intestinal morphology of Pacific red snapper (<i>Lutjanus peru</i>)	208
Singh, S. K., Aravamudhan, S., Armant, O., Krüger, M., Grabher, C. Proteome dynamics in neutrophils of adult zebrafish upon chemically-induced inflammation	217
Gómez-González, N. E., García-García, E., Montero, J., García-Alcázar, A., Meseguer, J., García-Ayala, A., Mulero, V. Isolation of mast cells from the peritoneal exudate of the teleost fish gilthead sea bream (<i>Sparus aurata</i> L.)	225
Boscolo Papo, M., Bertotto, D., Pascoli, F., Locatello, L., Vascellari, M., Poltronieri, C., Quaglio, F., Radaelli, G. Induction of brown cells in <i>Venerupis philippinarum</i> exposed to benzo(a)pyrene	233
Yang, Y., Huang, J., Li, L., Lin, L., Zhai, Y., Chen, X., Liu, X., Wu, Z., Yuan, J. Up-regulation of nuclear factor E2 – Related factor 2 upon SVCV infection	245
Fu, X., Li, N., Lin, Q., Guo, H., Zhang, D., Liu, L., Wu, S. Protective immunity against infectious spleen and kidney necrosis virus induced by immunization with DNA plasmid containing <i>mcp</i> gene in Chinese perch <i>Siniperca chuatsi</i>	259
Qin, C., Zhang, Y., Liu, W., Xu, L., Yang, Y., Zhou, Z. Effects of chito-oligosaccharides supplementation on growth performance, intestinal cytokine expression, autochthonous gut bacteria and disease resistance in hybrid tilapia <i>Oreochromis niloticus</i> ♀ × <i>Oreochromis aureus</i> ♂	267



論 文

- アワビの糞を利用したPCR法による*Xenohaliotis californiensis* の迅速な検出 (英文) : 桐生郁也・西岡豊弘・湯浅 啓・栗田 潤・鶴原佳子・乙竹充・池上直也・大迫典久 41

短 報

- 穢毛虫*Chilodonella hexasticha* の寄生による野生ハスの死亡事例 : 関村貴司・桑村邦彦・小川和夫 49

- チュニジア沿岸で天然の*Epinephelus* 属魚種に発生したウイルス性神経壞死症による大量死 (英文) : S. Haddad-Boubaker・W. Boughdir・S. Sghaier・J. B. Souissi・A. Megdich・R. Dhaouadi・A. Amara・V. Panzarini・E. Fakhfakh 53

- 保有宿主としてのスズメダイ類から検出された粘液胞子虫*Enteromyxum leei* の黒海における初報告 (英文) : A. Özer・T. Öztürk・H. Özkan・A. Çam 57

- アユのエドワジエラ・イクタルリ感染に及ぼす水温の影響 (英文) : 永井崇裕・中井敏博 61

シンポジウム記録

- 水産輸入防疫の現状と課題 : 笠井久会・渡邊研一 64

- 我が国に侵入した水産動物の疾病 : 高岸奈々絵 65

- OIE 水生動物衛生コードと輸入リスク分析 : 釣田博文 66

- 水産輸入防疫の現状と課題 : 久保寺聰之 67

- 食品等の検疫制度 : 一色賢司 68

- 水産動物の輸入防疫—サケマス類を例に : 吉水 守 69

- 感染病の侵入から日本の水産業と水生動物を守るために僕らがすべきこと : 良永知義 70

- 文献抄録 71

- 会 載 73

Research Article

- Rapid and Simple Detection Method of "Candidatus Xenohaliotis californiensis" Using Fecal PCR in Abalone *Haliotis discus discus* and *H. gigantea*: I. Kiryu・T. Nishioka・K. Yuasa・J. Kurita・Y. Shimahara・M. Ototake・N. Ikegami・N. Oseko 41

Short Communications

- Mortality of Wild Three-lips *Opsariichthys uncirostris* by Infection with *Chilodonella hexasticha**: T. Okamura・K. Kuwamura・K. Ogawa 49

- Outbreak of Viral Nervous Necrosis in Endangered Fish species *Epinephelus costae* and *E. marginatus* in Northern Tunisian Coasts: S. Haddad-Boubaker・W. Boughdir・S. Sghaier・J. B. Souissi・A. Megdich・R. Dhaouadi・A. Amara・V. Panzarini・E. Fakhfakh 53

- First Report of *Enteromyxum leei* (Myxozoa) in the Black Sea in a Potential Reservoir Host *Chromis chromis*: A. Özer・T. Öztürk・H. Özkan・A. Çam 57

- Water Temperature Effect on *Edwardsiella ictaluri* Infection of Ayu *Plecoglossus altivelis*: T. Nagai・T. Nakai 61

(*In Japanese with English summary)

Fisheries

VOL 39 NO 7 JULY 2014

Contents

COLUMNS

President's Commentary

291 The Socioeconomic Values of Recreational Fishing

Bob Hughes

Policy

293 Leadership Styles We Can Appreciate

Thomas E. Bigford

The Communication Stream

318 Science and Social Media: How, What, and When to Share

Jeremiah Osborne-Gowey

Digital Revolution

319 Drones—A Fisheries Assessment Tool?

Jeff Kopaska

Letter from the Executive Director

331 Scaling Up Conservation

Doug Austen

ESSAYS AND FEATURES

294 Are We Overlooking Landscape-Scale Threats to Common Freshwater Fishes?

Populations of many common, broadly distributed freshwater fishes may be on the decline in the face of rapidly expanding urbanization. Recognizing and addressing such trends now could prevent endangered species lists from growing in the future.

Ryan M. Utz

298 A Case for Accelerated Reestablishment of American Eel in the Lake Ontario and Champlain Watersheds

A plethora of stresses is depressing American Eel abundance, making recovery of eel populations in Lakes Ontario and Champlain a priority.

Wolf-Dieter N. Busch and David P. Braun

305 Anglers' Motivations for Volunteering with Fishing or Conservation Organizations

Why and how often do anglers volunteer with fishing or conservation organizations?

Michael A. Schuett, Gerard T. Kyle, Jeremy Leitz, Ken Kurzwinski, and Kyunghee Lee

Cover: A River Chub (*Nocomis micropogon*) tends to his nest while Central Stonerollers (*Campostoma anomalum*) aggregate nearby to take advantage of the structure. Are wonderful scenes such as this endangered in the rapidly urbanizing Mid-Atlantic United States? Photo credit: Jeffrey Baslinger / Freshwaters Illustrated.



312 Meet Justin Davis and the other 2014 Emerging Leaders.

INTERVIEW

312 Q&A: The 2014 Emerging Leaders

Patrick Cooney, Justin Davis, Carl-Ann Hayer, and Steve Midway.

316 Q&A: Book Editors

Foundations of Fisheries Science by Greg G. Sass and Michael S. Allen.

IN MEMORIAM

320 Norman G. Sharber

FRESHWATER, FISH, AND THE FUTURE

321 Global Conference on Inland Fisheries:

Theme 3—Drivers and Synergies

ANNOUNCEMENT

322 National Workshop on Large Landscape Conservation

AFS ANNUAL MEETING 2014

323 Schedule at a Glance

327 Thank You to Our Generous Sponsors!

328 Plenary Speakers' Abstracts for the 144th Meeting

BETTER KNOW A HATCHERY

329 A. E. Wood State Fish Hatchery, San Marcos, Texas

JOURNAL HIGHLIGHTS

332 North American Journal of Aquaculture, Volume 76, Number 2, April 2014

332 Journal of Aquatic Animal Health, Volume 26, Number 2, June 2014

CALENDAR

333 Fisheries Events

NEW AFS MEMBERS 334

Fisheries

VOL 39 NO 8 AUGUST 2014

Contents

COLUMNS

President's Commentary

339 Livestock Grazing in the West: Sacred Cows at the Public Trough Revisited

Why should we subsidize livestock grazing in national parks, wilderness areas, and wildlife refuges?

Bob Hughes

Policy

340 Forage Species and Issues

Forage is the food that sustains food webs, with ecosystem implications that connect fish to their aquatic systems. Our research, management, education, law, and policy efforts reflect that shift, to the benefit of the smallest fish, the hungriest predator, and each AFS member.

Thomas E. Bigford

Letter from the Executive Director

383 The Oyster and the Pearl: The Annual Report and Your Input

Why you really should read the Annual Report.

Doug Austen

FEATURES

341 Ecology and Conservation of Mudminnow Species Worldwide

A synthesis paper on the ecology and conservation status of the group of fishes commonly known as "mudminnows" (formerly known as the family *Umbridae* but recently reclassified as *Esocidae*), consisting of only five species distributed on three continents.

Lauren M. Kuehne and Julian D. Olden

352 Fish Community Responses to Mechanical Removal of Nonnative Fishes in a Large Southwestern River

Efficacy of mechanical removal of nonnative fishes in large streams has been difficult to ascertain, and responses by native fishes after removal is equivocal.

Nathan R. Franssen, Jason E. Davis, Dale W. Ryden, and Keith B. Gido

IN MEMORIAM

364 Rachel Anne Morrison



365 Read about the Hutton Junior Fisheries Biology Program In the 2013 Annual Report.

2013 ANNUAL REPORT 365

INTERVIEW

378 Q&A: Halamld® Aqua (Chloramine-T) Approved by FDA to Treat Fish Diseases—What It Means for Fisheries

Jesse T. Trushenski and James D. Bowker

SYMPOSIUM

380 The International Wild Trout Symposium: The Past and the Future

Stephen E. Moore, Daniel J. Schill, and Robert F. Carline

JOURNAL HIGHLIGHTS

384 North American Journal of Fisheries Management, Volume 34, Number 3, June 2014

CALENDAR

385 Fisheries Events

**U.S. Department
of Commerce**
Seattle, Washington

Volume 112
Numbers 2–3
April–July 2014

Fishery Bulletin

Contents

Articles

- 101–111 Long, W. Christopher, Peter A. Cummiskey, and J. Eric Munk
Effects of ghost fishing on the population of red king crab (*Paralithodes camtschaticus*) in Womens Bay, Kodiak Island, Alaska
- 112–130 Clemento, Anthony J., Eric D. Crandall, John Carlos Garza, and Eric C. Anderson
Evaluation of a single nucleotide polymorphism baseline for genetic stock identification of Chinook Salmon (*Oncorhynchus tshawytscha*) in the California Current large marine ecosystem
- 131–143 Callihan, Jody L., Charlton H. Godwin, and Jeffrey A. Buckel
Effect of demography on spatial distribution: movement patterns of the Albemarle Sound–Roanoke River stock of Striped Bass (*Morone saxatilis*) in relation to their recovery
- 144–158 Manderson, John P., Linda L. Stehlík, Jeff Pessutti, John Rosendale, and Beth Phelan
Residence time and habitat duration for predators in a small mid-Atlantic estuary
- 159–177 Henderson, E. Elizabeth, Karin A. Forney, Jay P. Barlow, John A. Hildebrand, Annie B. Douglas, John Calambokidis, and William J. Sydeman
Effects of fluctuations in sea-surface temperature on the occurrence of small cetaceans off Southern California

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The NMFS Scientific Publications Office is not responsible for the contents of the articles or for the standard of English used in them.

- 178–197 Clardy, Samuel D., Nancy J. Brown-Peterson, Mark S. Peterson, and Robert T. Leaf
Age, growth, and reproduction of Southern Kingfish (*Menticirrhus americanus*): a multivariate comparison with life history patterns in other sciaenids
- 198–220 Douglas, Annie B., John Calambokidis, Lisa M. Munger, Melissa S. Soldevilla, Megan C. Ferguson, Andrea M. Havron, Dominique L. Camacho, Greg S. Campbell, and John A. Hildebrand
Seasonal distribution and abundance of cetaceans off Southern California estimated from CalCOFI cruise data from 2004 to 2008
- 221–236 Rulifson, Roger A., and Christopher F. Batsavage
Population demographics of Hickory Shad (*Alosa mediocris*) during a period of population growth
- 237 Errata
- 238 Announcement of Best Paper Awards for 2013
- 239–241 Guidelines for authors

Contents

Volume 68 · Number 3 · September 2014

ORIGINAL ARTICLES

Larval stages of the deep-sea lobster *Polycheles typhlops* (Decapoda, Polychelida) identified by DNA analysis: morphology, systematic, distribution and ecology
A.P. Torres · F. Palero · A. Dos Santos · P. Abelló · E. Blasco · A. Boné · G. Guerao 379

Scleractinia (Cnidaria: Anthozoa) from INDEMARES 2010–2012 expeditions to the Avilés Canyon System (Bay of Biscay, Spain, northeast Atlantic)
A. Aluna · P. Ríos 399

A new genus and species of isanthid sea anemone (Cnidaria: Anthozoa: Actiniaria) from Chilean Patagonia, *Anthoparactis fossilis* n. gen. et sp
V. Hüssermann · E. Rodriguez 431

Relative growth and reproductive cycle of the date mussel *Lithophaga lithophaga* (Linnaeus, 1758) sampled from the Bizerte Bay (Northern Tunisia)
F.J. Kelli · S. Bouabaker · N.T.E. Menif 439

Indexed in/abstracted by Science Citation Index, Science Citation Index Expanded (SciSearch), SCOPUS, Astrophysics Data System (ADS), Google Scholar, EBSCO, CSA, CAB International, Academic OneFile, ASFA, Biological Abstracts, BIOSIS, CAB Abstracts, Current Abstracts, Current Contents/Agriculture, Biology & Environmental Sciences, EMBiology, Gale, Geobase, Global Health, Journal Citation Reports/Science Edition, OCLC, Summon by Serial Solutions, Zentralblatt für Marine Biologie und Parasitenkunde

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Instructions for Authors are available on the journal's website: www.springer.com/10152

JOURNAL OF AQUATIC ANIMAL HEALTH

VOLUME 26, NUMBER 2, June 2014

- 59 Relationship between Permeability Glycoprotein (P-gp) Gene Expression and Enrofloxacin Metabolism in Nile Tilapia
Kun Hu, Gang Cheng, Haixin Zhang, Huicong Wang, Jiming Ruan, Li Chen, Wenhong Fang, and Xianle Yang
- 66 Investigation of the Link between Broodstock Infection, Vertical Transmission, and Prevalence of *Flavobacterium psychrophilum* in Eggs and Progeny of Rainbow Trout and Coho Salmon
Amy Long, Douglas R. Call, and Kenneth D. Cain
- 78 [Communication] Susceptibility of Koi and Yellow Perch to Infectious Hematopoietic Necrosis Virus by Experimental Exposure
Alexander D. Palmer and Eveline J. Emmenegger
- 84 Risk Factors Associated with Enteric Septicemia of Catfish on Mississippi Commercial Catfish Farms
Fred L. Cunningham, S. W. Jack, David Hardin, and Robert W. Wills
- 91 [Communication] Development of a Nonlethal Health Assessment for Wild Red Drum Using a Health Index
Carla M. Bourtis, Ruth Francis-Floyd, Eric A. Reyier, Roy P. Yanong, and Louis J. Guillette Jr.
- 96 [Communication] Comparative Susceptibility of Channel Catfish, Blue Catfish, and their Hybrid Cross to Experimental Challenge with *Bolbophorus danunicus* (Digenea: Bolbophoridae) Cercariae
Matt J. Griffin, Stephen R. Reichley, Lester H. Khoo, Cynthia Ware, Terrence E. Greenway, Charles C. Mischke, and David J. Wise
- 100 Association of Mitochondrial Dysfunction with Oxidative Stress and Immune Suppression in Blunt Snout Bream
Megalobrama amblycephala Fed a High-Fat Diet
Kang-Le Lu, Wei-Na Xu, Wen-Bin Liu, Li-Na Wang, Chun-Nuan Zhang, and Xiang-Fei Li
- 113 [Communication] The Endemic Copepod *Calanus pacificus californicus* as a Potential Vector of White Spot Syndrome Virus
Fernando Mendoza-Cano, Arturo Sánchez-Paz, Berenice Terán-Díaz, Diego Galván-Alvarez, Trinidad Encinas-García, Tania Enríquez-Espinoza, and Jorge Hernández-López
- 118 Susceptibility of Fish and Turtles to Three Ranaviruses Isolated from Different Ectothermic Vertebrate Classes
Roberto Brenes, Debra L. Miller, Thomas. B. Waltzek, Rebecca P. Wilkes, Jennifer L. Tucker, Jordan C. Chaney, Rebecca H. Hardman, Mabre D. Brand, Rebecca R. Huether, and Matthew J. Gray



08997659 (2014) 26 (2)

REVIEW PAPER

- Jonsson, B. and Jonsson, N., Early environment influences later performance in fishes 151

REGULAR PAPERS

- Kinbara-Kawaguchi, M. R., Horita, M., Abe, S., Arai, K., Kawata, M. and Munehara, H., Identification of hermaphroditic reproduction in three species of Hexagrammos marine reef fishes 189
- Ozachoff, H. L., Ozachoff, K. N., Wickramarathne, A. E., Gunawardane, E. K., Venturini, F. P. and Kennedy, C. J., Altered burst swimming in rainbow trout *Oncorhynchus mykiss* exposed to natural and synthetic oestrogens 210
- Beshera, K. A. and Harris, P. M., Mitochondrial DNA phylogeography of the *Labeobarbus intermedius* complex (Pisces, Cyprinidae) from Ethiopia 228
- Bornatowski, H., Braga, R. R., Abilio, V. and Corrêa, M. F. M., Feeding ecology and trophic comparisons of six shark species in a coastal ecosystem off southern Brazil 246
- Yeager, L. A., Layman, C. A. and Hammerschlag-Peyer, C. M., Diet variation of a generalist fish predator, grey snapper *Lutjanus griseus*, across an estuarine gradient: trade-offs of quantity for quality? 264
- Wei, R., Zhou, C., Yuan, D., Wang, T., Lin, F., Chen, H., Wu, H., Xin, Z., Yang, S., Wang, Y., Chen, D., Liu, J., Gao, Y. and Li, Z., Characterization, tissue distribution and regulation of neuropeptide Y in *Schizothorax prenanti* 278
- Horree, J. L., Machado-Schiaffino, G., Griffiths, A. M., Bright, D., Stevens, J. R. and Garcia-Vazquez, E., Long-term effects of stock transfers: synergistic introgression of allochthonous genomes in salmonids 292
- Loh, W.-K. W., Bond, P., Ashton, K. J., Roberis, D. T. and Tibbets, T. R., DNA barcoding of freshwater fishes and the development of a quantitative qPCR assay for the species-specific detection and quantification of fish larvae from plankton samples 307
- Feng, D., Huang, Q. Y., Liu, K., Zhang, S. C. and Liu, Z. H., Comparative studies of zebrafish *Danio rerio* lipoprotein lipase (lpl) and hepatic lipase (hlpc) genes belonging to the lipase gene family: evolution and expression pattern 329
- Lin, M., Chauhan, M., Lek, S., Zhang, L., Gozlan, R. E., Liu, J., Zhang, T., Ye, S., Li, W. and Li, Z., Eutrophication as a driver of r-selection traits in a freshwater fish 343
- D'Aguillo, M. C., Harold, A. S. and Darden, T. L., Diet composition and feeding ecology of the naked goby *Gobiesoma bosc* (Gobiidae) from four western Atlantic estuaries 355
- O'Donnell, T. P., Denson, M. R. and Darden, T. L., Genetic population structure of spotted seatrout *Cynoscion nebulosus* along the south-eastern U.S.A. 374
- Stern, N., Levitt, Y., Galil, B. S., Diamant, A., Yokey, M. B. and Goran, M., Distribution and population structure of the alien Indo-Pacific Randall's threadfin bream *Nemipterus randalli* in the eastern Mediterranean Sea 394

Continued on inside back cover

Journal of Fish Biology is indexed in Animal Behaviour Abstracts; AQUARI; Aquatic Science and Fisheries Abstracts; Biological Abstracts (BIOSIS); Chemical Abstracts; Current Contents/Fisheries; ISI Alerting Services; and Science Citation Index - Expanded.

This journal is available online. Visit wileyonlinelibrary.com to search the articles and register for table of contents e-mail alerts.

Continued from outside back cover

Wang, T., Yuan, D., Zhou, C., Lin, F., Chen, H., Wu, H., Wei, R., Xin, Z., Liu, J., Gao, Y., Chen, D., Yang, S., Pu, Y. and Li, Z., Characterization of <i>Schizothorax prenanti</i> <i>cgnrhII</i> gene: fasting affects <i>cgnrhII</i> expression	407
Press, Y. K., McBride, R. S. and Wuenschel, M. J., Time course of oocyte development in winter flounder <i>Pseudopleuronectes americanus</i> and spawning seasonality for the Gulf of Maine, Georges Bank and southern New England stocks	421
Dietrich, G. J., Pecio, A., Sikorska, J., Wołnicki, J., Słowińska, M., Hliwa, P., Kamiński, R., Andronowska, A. and Ciereszko, A., Characterization of lake minnow <i>Eupallasella percnurus</i> semen in relation to sperm morphology, regulation of sperm motility and interpopulation diversity	446
Van Der Lingen, C. D. and Miller, T. W., Spatial, ontogenetic and interspecific variability in stable isotope ratios of nitrogen and carbon of <i>Merluccius capensis</i> and <i>Merluccius paradoxus</i> off South Africa	456
Francisco, S. M., Robalo, J. I., Stefanni, S., Levy, A. and Almada, V. C., <i>Gaidropsarus</i> (Gadidae, Teleostei) of the North Atlantic Ocean: a brief phylogenetic review	473
BRIEF COMMUNICATIONS	
Marques, P. S., Costa, M. F., Corrêa, C. C. D., Marinho, M. M. and Mazzoni, R., Grazing behaviour of a non-herbivorous characin: revisiting plasticity	488
Escobar-Sánchez, O., Moreno-Sánchez, X. G., Aguilar-Cruz, C. A. and Abitia-Cárdenas, L. A., First case of synophthalmia and albinism in the Pacific angel shark <i>Squatina californica</i>	494
Portnoy, D. S., Hollenbeck, C. M., Johnston, J. S., Casman, H. M. and Gold, J. R., Parthenogenesis in a whitetip reef shark <i>Triaenodon obesus</i> involves a reduction in ploidy	502
Bláha, M., Šetlíková, J., Peterka, J., Musil, J. and Polícar, T., Planktonic or non-planktonic food in young-of-the-year European perch <i>Perca fluviatilis</i> in ponds	509
Chen, X. W., Jiang, S., Gu, Y. F. and Shi, Z. Y., Molecular characterization and expression of <i>cyp19a</i> gene in <i>Carassius auratus</i>	516
Sparrevohn, C. R., Aarestrup, K., Stenberg, C. and Righton, D., Scanning for PIT-tagged flatfish in a coastal area using a sledge equipped with an RFID antenna	523
Marić, S., Alekseyev, S., Snoj, A., Askeyev, O., Askeyev, I. and Weiss, S., First mtDNA sequencing of Volga and Ob basin taimen <i>Hucho taimen</i> : European populations stem from a late Pleistocene expansion of <i>H. taimen</i> out of western Siberia and are not intermediate to <i>Hucho hucho</i>	530
Devine, B. M. and Fisher, J. A. D., First records of the blue runner <i>Caranx cryos</i> (Perciformes: Carangidae) in Newfoundland waters	540
Martínez-Chávez, C. C., Tello-Ballinas, A., Fonseca-Madrigal, J., Ross, L. G. and Martínez-Palacios, C. A., Photoperiodic growth enhancement in a tropical batch spawning atherinopsid, pike silverside <i>Chirostoma estor</i>	546
Book Reviews	554
Erratum	562

Journal of Fish Diseases

Volume 37, Number 9, September 2014

Contents

Original Articles

- 771 Epidermal response of rainbow trout to *Ichthyobodo necator*: immunohistochemical and gene expression studies indicate a Th1-/Th2-like switch *J K Chettri, J A Kuhn, R M Jaafar, P W Kania, O S Möller and K Buchmann*
- 785 Immunohistochemical characterization of polyclonal antibodies against *Enteromyxum leei* and *Enteromyxum scophthalmi* (Myxozoa: Myxosporea), intestinal parasites of fish *I Estensoro, M J Redondo, P Álvarez-Pellitero and A Sitjà-Bobadilla*
- 797 Pharmacokinetics and residue depletion of erythromycin in gilthead sea bream *Sparus aurata* L. after oral administration *A Di Salvo, R M Pellegrino, P Cagnardi and G della Rocca*
- 805 Marteiliosis in mussels: a rare disease? *M Gombač, D Kušar, M Ocepek, M Pogačnik, I Arzul, Y Couraleau and V Jenčić*
- 815 Development of chitosan conjugated DNA vaccine against nodavirus in *Macrobrachium rosenbergii* (De Man, 1879) *V L Ramya, R Sharma, P Gireesh-Babu, S R Patchala, A Rather, P C Nandanpatwar and S Eswaran*
- 825 *In vitro* passages impact on virulence of *Saprolegnia parasitica* to Atlantic salmon, *Salmo salar* L. part *M M Songe, E Thoen, Ø Evensen and I Skaar*

Short Communications

- 835 Investigating the interactions of Cyprinid herpesvirus-3 with host proteins in goldfish *Carassius auratus* *M Gotesman, A Abd-Elfattah, J Kattlun, H Soliman and M El-Matbouli*
- 843 Are African longfin eel imports a potential pathway for parasite invasions? *O L F Weyl, H Taraschewski and F Moravec*
- 847 Cholangioma in the Mozambique tilapia, *Oreochromis mossambicus* (Peters) *J C van Dyk*
- 853 Carrier state induced by oxytetracycline therapy against streptococcosis in Nile tilapia, *Oreochromis niloticus* (L.) *F C Faria, C A G Leal, G A Carvalho-Castro, R C Leite and H C P Figueiredo*

Covered in EMBASE, BIOBASE/CABS (Current Awareness in Biological Sciences), Current Contents/Fisheries, Marine Freshwater Biology, Veterinary Sciences, Science Citation Index, ISI Alerting Services, Medline, Aquatic Science & Fisheries Abstracts

CONTENTS

EDITORIAL

ARTICLES

- India's Maritime Outreach in the Asia-Pacific 153
Abhijit Singh

- Developments in Australia-India Relations: 172
The Odd Couple of the Indo-Pacific
David Brewster

- India-Vietnam Bilateral Engagement 187
Sampa Kundu

- India's Maritime Strategy and the Sino-India Interface 201
Kush Kumar Gayasen

- India's Engagement with Myanmar 218
Baladas Ghoshal

- Contextualising India-Sri Lanka Relations: 228
Present and the Future
N Sathiya Moorthy

Ocean Affairs

- Sustainable Development and UN Convention 241
on the Law of the Sea, 1982 (Part II)
O.P. Sharma

- Degradation of Mandarmoni Beach 254
*Asok Kumar Bhattacharya,
Aparajita Bhattacharya, and Esha Mukherjee*

- REGIONAL NEWS & VIEWS** 267

- GUIDELINES TO AUTHORS**

Journal of Molluscan Studies

Volume 80 Part 3 August 2014

Tempo and mode in land snail evolution: the origins and limits of diversity. Papers from a symposium, World Congress of Malacology, Ponta Delgada, Azores, July 2013

R. A. D. Cameron and B. M. Pokryszko

Introduction

223

N. Limondin-Lozouet and R. C. Preece

Quaternary perspectives on the diversity of land snail assemblages from northwestern Europe (Review Article)

224

J. C. Nekola

North American terrestrial gastropods through each end of a spyglass

238

L. Mumladze

Sympatry without co-occurrence: exploring the pattern of distribution of two *Helix* species in Georgia using an ecological niche modelling approach

249

M. Horsák, D. Zelený and M. Hájek

Land snail richness and abundance along a sharp ecological gradient at two sampling scales: disentangling relationships

256

A. Sulikowska-Drozd and T. K. Maltz

Experimental drought affects the reproduction of the brooding clausiliid *Alinda biplicata* (Montagu, 1803)

265

R. A. Helwerda and M. Schilthuizen

Predation on Greek *Albinaria* (Pulmonata: Clausiliidae) by *Poiretia* (Pulmonata: Oleacinidae) and by an unknown organism making circular holes: possible drivers of shell evolution

272

C. M. Sinclair-Winters

Upstream or downstream? Population structure of the land snail *Ventridens ligera* (Say, 1821) in the Potomac River drainage basin

280

M. Özgo

Rapid evolution and the potential for evolutionary rescue in land snails (Review Article)

286

Research Papers

T. R. Buckley, D. J. White, R. Howitt, T. Winstanley, A. Ramón-Laca and D. Gleeson

Nuclear and mitochondrial DNA variation within threatened species and subspecies of the giant New Zealand land snail genus *Powelliphanta*: implications for classification and conservation

291

D. L. Graf, A. J. Geneva, J. M. Pfeiffer, III and A. D. Chilala

Phylogenetic analysis of *Prisodontopsis* Tomlin, 1928 and *Murexella* Haas, 1936 (Bivalvia: Unionidae) from Lake Mweru (Congo basin) supports a Quaternary radiation in the Zambian Congo

303

A. Hawe, C. Paroll and G. Haszprunar

Interactive 3D-anatomical reconstruction and affinities of the hot-vent gastropod *Xylodiscida analoga* Warén & Bouchet, 2001 (Ectobranchia)

315

G. J. Vermeij

Molluscan marginalia: serration at the lip edge in gastropods

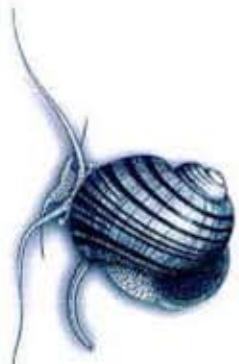
326

Research Note

A. Hawe, H. Gensler and G. Haszprunar

Bacteriocytes in the mantle cavity of *Lurifax vitrea* Warén & Bouchet, 2001 (Orbitestellidae): the first case among heterobranch gastropoda

337



MEMOIRS OF FACULTY OF FISHERIES
KAGOSHIMA UNIVERSITY
Volume 62, 2013

CONTENTS

[Research Paper]

S. Miyake and T. Kobari:

Starvation induced changes in nucleic acids and protein contents of crustacean zooplankton	1
--	---

Mizuki Matsunuma, Satokuni Tashiro, Ulysses B. Alama and Hiroyuki Motomura:

First record of a unicornfish, <i>Naso tergus</i> (Perciformes: Acanthuridae), from the Philippines	7
---	---

Shigeru Fujieda:

Marine Debris Issue and Prevention Practices of Discarded Expanded Polystyrene (EPS) Floats in Japan	11
--	----

Ryuji Fukuda, Masaki Uchiyama, Masayasu Hidaka, Tomonori Machiguchi:

Observation at Narrow Area of Submarine Fumarole off Yamagawa Port in Kagoshima Bay	21
---	----

Fumihiro Makino, Masataka Higashi, Akimasa Habano, Takahumi Azuma, Yoichi Arita, Atsushi Takeda and Kanako Nasu:

Report of training ship Kagoshima Maru's visit to Honolulu Port in 2012	31
---	----

Takafumi Azuma, Akimasa Habano, Fumihiro Makino, Yoichi Arita, Atsushi Takeda, Kanako Nasu, Masataka Higashi,

Midori Matsuoka, Takahisa Mitsuhashi and Toru Kobari:

Annual activity report of oceanographic observations by <i>T/V Kagoshima-maru</i>	35
---	----

[Education and Research Center for Marine Resources and Environment Report]

Jiro Koyama: Annual Report of Education and Research Center for Marine Resources and

Environment, Faculty of Fisheries (2012)	47
--	----

2012 Annual Contributions, Author Index	51
---	----

Instructions for Contributors	54
-------------------------------	----

* In English.

NORTH AMERICAN JOURNAL OF AQUACULTURE

VOLUME 76, NUMBER 3, July 2014

- 179 [Technical Note] A Self-Contained, Controlled Hatchery System for Rearing Lake Whitefish Embryos for Experimental Aquaculture
Charles Mitz, Christopher Thome, Mary Ellen Cybulski, Lisa Laframboise, Christopher M. Somers, Richard G. Manzon, Joanna Y. Wilson, and Douglas R. Boreham
- 185 [Technical Note] Growth Performance of Largemouth Bass Fed Fish Meal Derived from Asian Carp
John Bowzer, Alexis Bergman, and Jesse Trushenski
- 190 Effects of Graded Taurine Levels on Juvenile Cobia
Aaron M. Watson, Frederic T. Barrows, and Allen R. Place
- 201 Effects of Stocking Density on Growth, Survival, and Stress Physiology of Pigfish
Matthew A. DiMaggio, Courtney L. Ohs, Jason S. Broach, and Todd D. Sink
- 211 Impacts of Combined Salinity and Temperature Extremes on Different Strains and Species of Tilapia Inhabiting the Watershed of the Salton Sea
Varenka Lorenzi and Daniel Schlenk
- 222 More Judicious Use of Fish Oil in Cobia Feeds: I. Assessing the Relative Merits of Alternative Lipids
Franklin R. Woitel, Jesse T. Trushenski, Michael H. Schwarz, and Michael L. Jahncke
- 232 More Judicious Use of Fish Oil in Cobia Feeds: II. Effects of Graded Fish Oil Sparing and Finishing
Franklin R. Woitel, Jesse T. Trushenski, Michael H. Schwarz, and Michael L. Jahncke
- 242 [Communication] Impact of Stirring on the Luminescent Dissolved Oxygen Sensor
John Colt
- 245 Short and Long-Term Preservation of Sablefish Sperm from Baja California, Mexico
Samuel Sanchez-Serrano, Carmen Guadalupe Paniagua-Chavez, Manuel Segovia, and Charles R. Weirich
- 255 [Communication] Growth Response of Juvenile Walleyes after Cold Banking
Thomas M. Harder, Gordon G. Gotsch, and Robert C. Summerfelt
- 261 [Communication] Growth and Feed Conversion Ratio of Pond-Raised Hybrid Catfish Harvested at Different Sizes
Menghe H. Li, Edwin H. Robinson, Brian G. Bosworth, and Eugene L. Torrans
- 265 Interactive Effects of Stocking Density and Algal Feed Ration on Growth, Survival, and Ingestion Rate of Larval Geoduck Clams
Robert Marshall, Christopher M. Pearce, and R. Scott McKinley
- 275 [Communication] Minimal Body Size for Tagging Fish with Electronic Microchips as Studied in the Nile Tilapia
Christian Ouedraogo, Marc Canonne, Helena D'Cotta, Jean-François Baroiller, and Etienne Baras
- 281 Evaluation of a Gonadotropin Releasing Hormone Analog of cGnRH II as a Spawning Aid for Channel Catfish Versus Analogs of mGnRH I and sGnRH III
Sylvie M. A. Quiniou, Brian Bosworth, Nagaraj Chatakondi, and Danny Oberle
- 289 Production and Enrichment of Chironomid Larva with Different Levels of Vitamin C and Effects on Performance of Persian Sturgeon Larvae
Ali Hamidoghli, Bahram Falahatkar, Majidreza Khoshkhohlg, and Ahad Sahragard



NORTH AMERICAN JOURNAL OF FISHERIES MANAGEMENT

VOLUME 34, NUMBER 3, June 2014

- 463 Retardation of Reproduction in the Red Shiner Due to Electroshock
Christine T. Stewart and Marvin M. F. Lumesky
- 471 Lipid and Moisture Content Modeling of Amphidromous Dolly Varden Using Bioelectrical Impedance Analysis
J. T. Stolarski, F. J. Margraf, J. G. Carlson, and T. M. Sutton
- 482 Population Changes after 14 Years of Harvest Closure on a Migratory Population of Bull Trout in Idaho
John M. Erhardt and Dennis L. Scarneccchia
- 493 Reductions in Instream Wood in Streams near Roads in the Interior Columbia River Basin
Christy Meredith, Brett Roper, and Eric Archer
- 507 Status of Redband Trout in the Upper Snake River Basin of Idaho
Kevin A. Meyer, Daniel J. Schill, Elizabeth R. J. M. Mamer, Christine C. Kozlakay, and Matthew R. Campbell
- 524 Movements of Striped Bass between the Exclusive Economic Zone and Massachusetts State Waters
Jeff Kneebone, William S. Hoffman, Micah J. Dean, and Michael P. Armstrong
- 535 An Empirical Approach for Estimating the Precision of Hydroacoustic Fish Counts by Systematic Hourly Sampling
Yunbo Xie and Fiona J. Martens
- 546 Downstream Passage of Lake Sturgeon through a Hydroelectric Generating Station: Route Determination, Survival, and Fine-Scale Movements
C. A. McDougall, W. G. Anderson, and S. J. Peake
- 559 Factors Affecting Partial Migration in Puget Sound Coho Salmon
Jessica Rohde, Kurt L. Fresh, and Thomas P. Quinn
- 571 Laboratory Investigations on the Use of Strobe Lights and Bubble Curtains to Deter Dam Escapes of Age-0 Muskellunge
Heather A. Stewart, Max H. Wolter, and David H. Wahl
- 576 Performance of a Surface Bypass Structure to Enhance Juvenile Steelhead Passage and Survival at Lower Granite Dam, Washington
Noah S. Adams, John M. Plumb, Russell W. Perry, and Dennis W. Rondorf
- 595 [Management Brief] Quantification and Evaluation of Factors Influencing Largemouth Bass Predation of Stocked Advanced Fingerling Yellow Perch
Seth A. Lundgren, Casey W. Schoenebeck, Keith D. Koupal, Jared A. Lorenzen, and Caleb G. Huber
- 602 [Management Brief] An Estimate of Postrelease Mortality of School-Size Bluefin Tuna in the U.S. Recreational Troll Fishery
Benjamin J. Marcek and John E. Graves
- 609 Loss of Genetic Integrity in Hatchery Steelhead Produced by Juvenile-Based Broodstock and Wild Integration: Conflicts in Production and Conservation Goals
Daniel M. Bingham, Benjamin M. Kennedy, Kyle C. Hanson, and Christian T. Smith
- 621 Genetic Identification of Chinook Salmon in the Columbia River Estuary: Stock-Specific Distributions of Juveniles in Shallow Tidal Freshwater Habitats
David J. Teel, Daniel L. Bottom, Susan A. Hinton, David R. Kuligowski, George T. McCabe, Regan McNatt, G. Curtis Roegner, Lia A. Stamatiou, and Charles A. Simenstad
- 642 [Management Brief] Quantifying the Effectiveness of Conservation Measures to Control the Spread of Anthropogenic Hybridization in Stream Salmonids: a Climate Adaptation Case Study
Robert Al-Chokhachy, Clint C. Muhlfeld, Matthew C. Boyer, Leslie A. Jones, Amber Steed, and Jeffrey L. Kershner
- 653 Genetic Structure of Striped Bass in the Southeastern United States and Effects from Stock Enhancement
Andrew P. Anderson, Michael R. Denson, and Tanya L. Darden
- 668 Feeding Habits, Daily Ration, and Potential Predatory Impact of Mature Female Spiny Dogfish in North Carolina Coastal Waters
Charles W. Bangley and Roger A. Rulifson
- 678 Fishing for Northern Pike in Minnesota: Comparing Anglers and Dark House Speakers
Susan A. Schroeder and David C. Fulton

Oceanic Linguistics

VOLUME 53

NUMBER 1

JUNE 2014

CONTENTS

- 1 Greater Awyu and Greater Ok: Inheritance or Contact?
WILCO VAN DEN HEUVEL AND SEBASTIAN FEDDEN
- 37 Dobel Historical Phonology
ROBERT BLUST
- 61 Sequentiality-Futurity Links
FRANTISEK LICHTENBERK
- 92 Ethnic Language Use and Ethnic Identity for Sarawak Indigenous Groups in Malaysia
SU-HIE TING AND LOUIS ROSE
- 110 The Status of Subject and Object Markers in Pakin Lukunosh Mortlockese
EMERSON LOPEZ ODANGO
- 136 Grammaticalization of Predicative Possession in Nanwang Puyuma and as a Basis for Reconstruction in PAN
STACY FANG-CHING TENG
- 155 An Innovated Possessor Suffix and Category in Central Choiseul
BILL PALMER

IN MEMORIAM

- 170 In Memoriam, John (Hans) Z'graggen, 1932–2013
ANDREW PAWLEY
- 176 In Memoriam, Howard Paul McKaughan, 1922–2013
ROBERT BLUST

New Additions to Library

Periodicals

1. Aquaculture : Vol.431, Jul '14
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3. Canadian Journal of Fisheries and Aquatic Sciences : Vol.71 (1), Jan '14
4. Canadian Journal of Fisheries and Aquatic Sciences : Vol.71 (2), Feb '14
5. Canadian Journal of Fisheries and Aquatic Sciences : Vol.71 (3), Mar '14
6. Canadian Journal of Fisheries and Aquatic Sciences: Vol.71 (4), Apr '14
7. Canadian Journal of Fisheries and Aquatic Sciences: Vol.71 (5), May '14
8. Current Science : Vol.107 (3), Aug '14
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15. Economic and Political Weekly : Vol.49 (32), Aug '14
16. Economic and Political Weekly : Vol.49 (34), Aug '14
17. Economic and Political Weekly : Vol.49 (35), Aug '14
18. FAO Fisheries and Aquaculture Proceedings 22 : Second International Congress on Seafood Tchnology on Sustainable, innovative and Healthy Seafood. FAO/ The University of Alaska, 1-13May 2010, Anchorage, The United States of America
19. FAO Species Identification Guide : Marine Mammals of the World
20. Fish and Fisheries : Vol. 15 (3), Sep '14
21. Fish Farming International : Iss. 8, Aug '14
22. Fish Pathology : Vol. 49 (2), Jun '14
23. Fishery Bulletin (US) : Vol. 112 (2-3), Apr-Jul '14
24. Fishing News International : Vol. 53 (9), Sep '14
25. Helgoland Marine Research : Vol. 68 (3), Sep '14
26. Indian Journal of Agricultural Economics : Vol. 69 (2), Apr-Jun '14
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28. Journal of Biosciences : Vol. 39 (4), Sep '14
29. Journal of Fish Biology : : Vol. 85 (2), Aug '14
30. Journal of Marine Biological Association of India (JMBAI) : Vol. 54 (2), Jul-Dec '12
31. Journal of Marine Research : Vol. 71 (6), Nov '13
32. Journal of Marine Research : Vol. 72 (1), Jan '14
33. Journal of Molluscan Studies : Vol. 80 (3), Aug '14
34. Journal of Taiwan Fisheries Research : Vol. 22 (1), Jun '14
35. Kasetsart University Fisheries Research Bulletin : Vol. 38 (1), Jan-Apr '14
36. Memoirs of Faculty of Fisheries Kagoshima University : Vol. 62, '14

37. North American Journal of Fisheries Management : Vol. 34 (3), Jun '14
38. Oceanic Linguistics : Vol. 53 (1), Jun '14
39. Pacific Science : Vol. 68 (2), Apr '14
40. Pacific Science : Vol. 68 (3), Jul '14
41. Policy Paper – NCAEPR : No. 28, '14
42. Resonance : Vol. 19 (8), Aug '14
43. SEAFDEC Newsletter : Vol. 37 (2), Apr-Jun '14
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45. Seshaiyana - ENVIS Newsletter on Estuaries, Mangroves, Coral Reefs and Lagoons : Vol. 21 (2), Jul-Sep '13
46. Seshaiyana - ENVIS Newsletter on Estuaries, Mangroves, Coral Reefs and Lagoons : Vol. 21 (3), Oct-Dec '13
47. Swamysnews : No. 8, Aug '14

