Contents


L. W. Keith-Diagne, P. F. de Larrinoa, T. Diagne, and L. M. Gonzalez: First Satellite Tracking of the African Manatee (Trichechus senegalensis) and Movement Patterns in the Senegal River ........................................... 21

S. Nah-Balam, G. Poot-López, and R. E. Díaz-Gambou: Habitat Characterization of Bottlenose Dolphins (Tursiops truncatus) Along the Coast of Yucatan, Mexico ........................................... 30

A. A. Zaytsev, Y. V. Litvinov, M. V. Pahomov, A. R. Troshichev, A. P. Yakovlev, and P. A. Zavoloka: Birth of a Halichoerus grypus atlantica (Nehring, 1866) Pup at the Biotechnical Aquacomplex of MMBI RAS ............................................................................ 36


S. D. Berrow, N. Massett, P. Whooley, B. V. M. Jann, P. Lopez-Suárez, P. T. Stevick, and F. W. Wenzel: Resightings of Humpback Whales (Megaptera novaeangliae) from Ireland to a Known Breeding Ground: Cabo Verde, West Africa ........................................... 63


G. C. Crooks, S. M. Sharp, C. Merigo, K. M. Moore, and C. J. Innis: Hematologic and Serum Biochemical Data from Mass Stranded Long-Finned Pilot Whales (Globicephala melas), Cape Cod, USA, 2002 ........................................... 76


Historical Perspectives

W. R. Winhall: Evolution of Reinforcement and Relationships ........................................... 96

Cover Photos

Left: Pantropical spotted dolphins (Stenella frontalis) bow-riding the RV Atlântico Sul (Oceanography Institute, Universidade Federal do Rio Grande) in the oceanic waters off southeastern Brazil
Photo credit: Marcelo Wiegand/Talude Project

Bottom right: A common bottlenose dolphin (Tursiops truncatus) sighted in the offshore waters off southern Brazil
Photo credit: Nicholas Daudt/Talude Project

Top center: Mature female gray seal, “Zmei,” at MMBI RAS biotechnical aquacomplex
Photo credit: A. R. Troshichev, MMBI RAS

Top right: Juvenile gray seal, “Tim,” born in managed care at MMBI RAS biotechnical aquacomplex
Photo credit: L. M. Gonzalez, MMBI RAS
Aquatic Mammals

Established by the EAAM in 1974

The European Association for Aquatic Mammals (EAAM), the Alliance of Marine Mammal Parks and Aquariums (AMMPA), and the International Marine Animal Trainers' Association (IMATA) jointly sponsor Aquatic Mammals (ISSN 0167-5427), published six times per year.

Managing Editor and Copyright
Kathleen M. Dudzinski, Ph.D.
Managing Editor and Copyright
Kathleen M. Dudzinski, Ph.D.
Mailing Address: PO Box 7485, Port St. Lucie, Florida 34985, USA; Tel: +1 (860) 514-4704
E-mail: aquaticmammals@gmail.com or business@aquaticmammalsjournal.org

Business Manager
Gina Colley, Macomb, Illinois; E-mail: business@aquaticmammalsjournal.org

Co-Editors
Shane B. Kanatous, Ph.D., Department of Biology, Colorado State University, Fort Collins, Colorado
E-mail: Shane.Kanatous@ColoState.edu
David A. S. Rosen, Ph.D., Marine Mammal Research Unit, University of British Columbia, Vancouver, British Columbia
E-mail: rosen@zoology.ubc.ca
Elizabeth Henderson, Ph.D., NIWC Pacific, San Diego, California
E-mail: eehenders@gmail.com
Kristy L. Biolsi, Ph.D., Department of Psychology, St. Francis College, Brooklyn, New York
E-mail: kbiolsi@sfc.edu
Juan José Alava, Ph.D., Ocean Pollution Research Unit, Institute for the Oceans and Fisheries, University of British Columbia, Vancouver, BC, Canada
E-mail: j.alava@oceans.abc.ca

Book Review Editor
MaryEllen Mateleska, Mystic, Connecticut; E-mail: mmateleska@searesearch.org

Assistant Editor
Brittany McIntosh, Windsor Locks, Connecticut; E-mail: assistanteditor@aquaticmammalsjournal.org

Copy Editing and Layout Design Services
Sandra K. Larimer and Shanee J. Plate, Macomb, Illinois

Editors Emeriti
Willem H. Dudok van Heel, Victor J. A. Manton, Paul E. Nachtigall, Jeanette A. Thomas

Editorial Board
Arne Bjørge, Institute of Marine Research, Oslo, Norway
Manuel dos Santos, MARE, ISPA - Instituto Universitário, Lisbon, Portugal
Manuel García Hartmann, MarLab, France
Heidi Harley, Division of Social Sciences, New College of Florida, Sarasota, Florida, USA
A. Rus Hoelzel, School of Biological and Biomedical Sciences, University of Durham, Durham, UK
Christina Lockyer, Age Dynamics, Kongens Lyngby, Denmark
Lee A. Miller, Institute of Biology, University of Southern Denmark, Odense, Denmark
Paul E. Nachtigall, Hawaii Institute of Marine Biology, Kailua, Hawaii, USA
Dan Odell, Hubbs-SeaWorld Research Institute, Orlando, Florida, USA
Grey Stafford, Grand Canyon University, Scottsdale, Arizona, USA

Aquatic Mammals
Board of the European Association for Aquatic Mammals (EAAM)
www.eaam.org
President: Javier Almunia, Loro Parque Fundación, president@eaam.org
President-Elect: Renato Lenzi, Zoomarine Rome, president_elect@eaam.org
Past President: Brad Andrews, SeaWorld Parks & Entertainment, past_president@eaam.org
Secretary/Treasurer: Camino Herreros Paris, Mundomar, camino.eaam@mundomar.es
Information Committee: Guillermo J. Sánchez Contreras, Mediterraneo Marine Park (Malta), and Javier Almunia, information@eaam.org

Alliance of Marine Mammal Parks and Aquariums (AMMPA)
www.ammpa.org
Executive Director: Kathleen Dezio
E-mail: kdezio@ammpa.org

Board of Directors
Chair: Michelle Campbell, Dolphin Quest/Quest Global Management, mcampbell@dolphinquest.com
Past Chair: Patrick Berry, Gulfarium Marine Adventure Park, patrick.berry@gulfarium.com
Vice Chair: Eric Gaglione, Georgia Aquarium, egaglione@georgiaaquarium.com
Treasurer: Michael Boos, Ocean Park Hong Kong, michael.boos@seaworld.com
Secretary: Kelly Flaherty Clark, SeaWorld Parks and Entertainment, kelly.clark@seaworld.com
Director-at-Large: Fernando Delgado, Delphinus, fdelgado@delphinus.com.mx
Director-at-Large: Chip Harshaw, Virginia Aquarium & History Museum, charshaw@virginiaquarium.com

International Marine Animal Trainers’ Association (IMATA)
www.imata.org
Executive Director: William Hurley
E-mail: executivedirector@imata.org

Board of Directors
President: Michael Hunt, SeaWorld Orlando, president@imata.org
President-Elect: Will Elgar, Georgia Aquarium, president-elect@imata.org
Secretary: Andy Horn, Mississippi Aquarium, secretary@imata.org
Treasurer: Kristine Funk, Coral World Ocean Park, treasurer@imata.org
First Vice President: Heather Keenan, Zoo Miami, firstvp@imata.org
Second Vice President: Madelynn Hettiger, John G. Shedd Aquarium, secondvp@imata.org
Third Vice President: Gary Siddall, Aquarium of Niagara, thirdvp@imata.org

For subscriptions, instructions to authors, abstracts of previous issues, publication fees, hard copies, back issues, and Historical Perspectives DVDs, see the Aquatic Mammals website: www.aquaticmammalsjournal.org

For details about the online versions of Aquatic Mammals, see the following websites:
Aquatic Mammals: www.aquaticmammalsjournal.org
ProQuest: www.proquest.com (specific to library subscribers)

Printed by Minuteman Press, 595 West Main Street, Norwich, Connecticut 06360, USA