



Session 03

Oxygen variability on the Senegalese continental shelf

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Reçu le 09/12/2014; publié le 15/05/2015
AWA © MS WP3_S3_6_103

Abstract

South Atlantic Central Waters in the eastern subtropical Atlantic Ocean are characterized by an oxygen minimum zone which borders the shelf holding the upwelling activity. Hence waters depleted in oxygen are advected over the shelf where they undergo changes related to both physical and biological processes. Since 2012, four oceanographic cruises have been carried out in Senegalese waters during the upwelling season. We will present the variability observed across the shelf which also show the occurrence of hypoxic and even anoxic events associated to denitrification process which impact pelagic habitats and nitrous oxide production.

Keywords : Anoxic event, biogeochemistry, Senegal.



Commission Sous-Régionale des Pêches
Sub-Regional Fisheries Commission



Book of Abstract International Conference ICAWA 2014

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ISBN : 978-2-9553602-0-1

Edited by:

Patrice Brehmer (IRD) & Hamady Diop (SRFC/CSRP)

With the collaboration of:

Marie Madeleine Gomez, Ndague Diogoul, Viviane Koutob, Peter Brandt, Bamol Ali Sow, Alban Lazar, Xavier Capet, Heino Fock, Carlos F. Santos, Eric Machu, Hamet Diadihou, Didier Jouffre, Ibrahima Diallo, Joern Schmidt, Amadou Gaye, Mahfoudhould Taleb Sidi, Yves Gouriou, Rafael Almar, Moussa Sall, Dominique Duval Diop, Modou Thiow, Ross Wanless, Jacob Gonzales-Solis Bou, Ibrahima Ly, Dienaba Beye Traoré, Marie Bonnin, Werner Ekau.

ISBN: 978-2-9553602-0-0

SRFC/CSRP – IRD ©2015

Cover design: AWA (BMBF – IRD) project

Logo and flyers: Laurent Corsini (IRD)

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