

# CURRICULUM VITAE

## 1. PERSONAL DETAILS

Katrin Schröder  
Born in Frankfurt am Main (Germany) on 10/04/1979  
Nationality: German  
Email: [katrin.schroeder@ismar.cnr.it](mailto:katrin.schroeder@ismar.cnr.it)  
Web: [www.barena.net](http://www.barena.net)

## 2. EDUCATION

PhD at the Doctoral School of Environmental Sciences of the University of Venice, (Tutors: Dr. Andrea Bergamasco, CNR-ISMAR; Dr. Gian Pietro Gasparini, CNR-ISMAR; Dr. Roberta Delfanti, ENEA) with a thesis about '*Variability of the physical and biogeochemical behaviour of the Mediterranean Sea during the past 30 years*' (January 2008).

Postgraduate Degree in Environmental Sciences, University of Venice (110/110 cum laude, 2003), with a thesis about '*Eutrophic phenomena in the Wadden Sea of Schleswig-Holstein, Germany: evaluation and quantification of the porewater leakage process in the intertidal flat*' (October 2003).

Graduated Degree in Environmental Sciences, University of Venice (110/110, 2002), with a thesis about '*Determination of PCB, Pesticides and IPA in lagoon sediments and the bioaccumulation of phenantrene and antracene in Mytilus galloprovincialis*' (June 2002).

## 3. EXPERTISE

CURRENT AND HYDROLOGICAL DATA ACQUISITION AND PROCESSING

BIOGEOCHEMICAL DATA ACQUISITION AND ANALYSIS

OCEANOGRAPHIC DATA ANALYSIS AND INTERPRETATION

DRIFTER DATA ANALYSIS AND INTERPRETATION

INVERSE METHODS APPLICATION

SPECIFIC SOFTWARES USAGE (SURFER, ORIGIN, OCEAN DATA VIEW, MS OFFICE, SBE DATA PROCESSING, SEASAVE, CODAS SYSTEM SOFTWARE, LADCP PROCESSING SOFTWARE, WINADCP, WINSC, PLANADCP, VMDAS)

MATLAB AND FORTRAN PROGRAMMING

GOOD GERMAN, ITALIAN AND ENGLISH KNOWLEDGE

## 4. ACTIVITIES

### Grants, Contracts and Collaborations

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| Since November 2011                  | Researcher at <b>CNR - Institute of Marine Science</b> (Venice, Italy).                                                                                                                                                                                                                                                                                                                                                                                                                            |
| December 2010-October 2011           | Researcher at <b>CNR - Institute of Marine Science</b> (La Spezia, Italy).                                                                                                                                                                                                                                                                                                                                                                                                                         |
| September – December 2008            | Visiting scientist at the <b>National Oceanography Centre, Southampton</b> , with the support of an <b>ESF-MedClivar Exchange Grant</b> .                                                                                                                                                                                                                                                                                                                                                          |
| Since November 2006                  | Research fellowship in the <b>CNR - Institute of Marine Science</b> (La Spezia, Italy) with field and lab activities related to oceanographic and biogeochemical processes, focused on the hydrological e dynamical characterization of the Strait of Sicily, in the framework of the Research Project “Design Study for a Deep Sea facility in the Mediterranean for Neutrino Astronomy and Associated Sciences (KM3net)”.                                                                        |
| November 2006                        | Contract with the <b>CNR – Institute for the Marine and the Coastal Environment</b> (Messina, Italy) focused on the measurement and the data elaboration of physical and chemical parameter, related to the 2006 oceanographic cruises in the Eastern Mediterranean Sea.                                                                                                                                                                                                                           |
| July 2006 - October 2006             | Contract with the <b>CNR – Institute of Marine Science</b> (La Spezia, Italy) with field and lab activities focused on the measurement and the data elaboration of physical parameters collected in the Ionian Sea, in the framework of the Research Project “Design Study for a Deep Sea facility in the Mediterranean for Neutrino Astronomy and Associated Sciences (KM3net)”.                                                                                                                  |
| June 2004 – May 2006                 | Research fellowship in the <b>Marine Environment Research Centre ENEA</b> (La Spezia, Italy) with field and lab activities related to oceanographic and biogeochemical processes tracers, for the analysis of the biogeochemical cycles in the marine environment, in particular: horizontal and vertical distribution of hydrographic properties, nutrients, chlorophyll and oxygen in the water column in some crucial areas of the Western Mediterranean Sea; data analysis and interpretation. |
| May 2003 - June 2003 and August 2002 | Stage in the <b>Research and Technology Centre FTZ</b> (Büsum, Germany): Nutrient analysis in the interstitial water of intertidal sediments.                                                                                                                                                                                                                                                                                                                                                      |
| June 2002                            | Stage in the <b>Laboratory of Environmental Chemistry</b> of the Department of Environmental Sciences (University of Venice): Analysis of organic pollutants in sediments and bivalves.                                                                                                                                                                                                                                                                                                            |

October 2001            Stage in the **Laboratory of Applied Ecotoxicology** of the Department of Environmental Sciences (University of Venice): Chemical and ecotoxicological analysis in sediments and lagoon ecosystems.

### **Awards and scientific recognitions**

In October 2008 she has been invited at the 3rd ESF-MedCLIVAR Workshop "Understanding the mechanisms responsible for the Mediterranean Sea circulation and for sea level trends".

In December 2008 she has received the Young Scientist's Travel Award for Europeans (YSTA) for the participation to the EGU 2009 conference.

In May 2009 she has been invited to contribute to the CIESM Research Workshop n. 38 on Dynamics of Mediterranean Deep Waters.

In May 2010 she has been invited as Keynote Panel Speaker at the 39<sup>th</sup> CIESM Congress.

In June 2010 her paper Schroeder et al. (2010) entitled "Abrupt warming and salting of the Western Mediterranean Deep Water after 2005: atmospheric forcings and lateral advection" published in the Journal of Geophysical Research has been highlighted in the "Research Highlights" published by Nature Geoscience (vol. 3).

In September 2010 she has been invited as Keynote Speaker at the 5th ESF-MedCLIVAR-ICTP Workshop "Scenarios of Mediterranean Climate Change under Increased Radiative Active Gas Concentration and the Role of Aerosols".

In October 2010 she has received the "Best Oral Presentation Award" at the international congress *MREA 10: Maritime Rapid Environmental Assessment Conference - Quantifying, Predicting and Exploiting Uncertainties in Marine Environments* organized by the NATO Undersea Research Centre.

In May 2011 she has been invited to contribute to the CIESM Research Workshop n. 43 on Planning repeated basin-wide surveys for climatic studies in the Mediterranean Sea.

In June 2011 she has received the MedClivar Young Scientist Award "for her important contribution to the understanding of the physical oceanography of the western Mediterranean, her leading role in the second MedClivar book and active contribution to the MedClivar activities".

In June 2011 she has been invited as Keynote Speaker at the MedCLIVAR Final Conference, "Mediterranean Climate: From Past to Future".

## Courses

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| April 2010     | <b>“NURC Glider Pilot Training”</b> , organized by NATO Undersea Research Centre, La Spezia) and held by Dr. K. Niewiadomska.                                                                                                                                    |
| April 2009     | Course on <b>“How to write a competitive proposal for framework 7”</b> , organized by the EGU General Assembly 2009, (22 <sup>th</sup> April).                                                                                                                   |
| November 2008  | Training programme <b>“Teams for the future”</b> about building, leading and contributing to multidisciplinary teams and collaborations (MBTI training), organized by the FESM-University of Southampton (25 <sup>th</sup> November & 3 <sup>rd</sup> December). |
| September 2008 | Summer school on <b>“Climate Variability over the Mediterranean area: Atmospheric and Oceanic Components”</b> , organized by the ESF-MEDCLIVAR Programme in Rhodes (17 <sup>th</sup> – 27 <sup>th</sup> September 2008).                                         |
| June 2008      | Summer school on <b>“Climate Forcings and Global Patterns”</b> , organized by the Istituto Veneto di Scienze Lettere ed Arti in Venice (13 <sup>th</sup> – 20 <sup>th</sup> June 2008).                                                                          |
| January 2008   | MEDCLIVAR School on <b>“Climate Extreme Events”</b> , organized by the CMCC in Lecce (21 <sup>st</sup> – 26 <sup>th</sup> January 2008).                                                                                                                         |
| May 2007       | Advanced School on Oceanography <b>“World Climate &amp; Overturning Circulation in Oceans &amp; Mediterranean Seas”</b> , organized by ICTP in Trieste (30 <sup>th</sup> April – 11 <sup>th</sup> May 2007).                                                     |
| February 2007  | <b>RDI Marine Measurements and SeaBird Advanced Training Course</b> , organized by Communication Technology in Bertinoro (27 <sup>th</sup> February-1 <sup>st</sup> March 2007).                                                                                 |
| September 2006 | Training Course <b>Ocean 2006</b> , organized by ESA (European Space Agency) in Hamburg (24 <sup>th</sup> – 29 <sup>th</sup> September 2006), about remote sensing in oceanography.                                                                              |
| August 2001    | <b>General English</b> Course at the Atlantic Language Galway (Ireland)                                                                                                                                                                                          |

## Participation to Research Projects and Networks

Research Project **“PERSEUS: Policy-oriented marine Environmental Research in the Southern European Seas”**, supported by the European Commission (FP7).

Research Project **“TOSCA: Tracking Oil Spills and Coastal Awareness Network”**, a MED project supported by the European Commission.

Infrastructure Project **“JERICO: Towards a Joint European Research Infrastructure network for Coastal Observatories”**, supported by the European Commission (FP7).

Infrastructure Project “**EUROFLEETS**: Towards an alliance of European Research Fleets” supported by the European Commission (FP7).

Research Project “**SOS-Bocche di Bonifacio**” coordinated by CNR-IAMC Oristano, in collaboration with the Coastal Guard of La Maddalena, financed by the Italian Ministry for Environmental Protection.

Research Project “**SESAME** Southern European Seas: Assessing and Modelling Ecosystem Changes”, an integrated project supported by the European Commission's Sixth Framework Programme, Sustainable Development, Global Change and Ecosystems.

Research Project “Design Study for a Deep Sea facility in the Mediterranean for Neutrino Astronomy and Associated Sciences (**KM3net**)”.

Research Programme **MEDCLIVAR** “Mediterranean CLimate VARIability and Predictability”, founded by the European Science Foundation (ESF).

Research programme **HyMeX** “HYdrological cycle in the Mediterranean Experiment” (where she is Task Team Leader of the Group “Sounding the Ocean-Circulation”).

### Seminars and lectures

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| November 09                  | Lecture on <i>Oceanographic measurements: acquisition, processing and interpretation</i> , MSc Course “Laboratory of marine-coastal ecology and oceanographic instrumentation” held by A. Rubino, University of Venice. |
| June 09                      | Co-Chair of the roundtable on <i>Measuring air-sea fluxes and sounding the Ocean</i> during the 3rd HyMeX workshop, Heraklion, 1-4 June 2009.                                                                           |
| March 09                     | Co-teacher during a training course about <i>ADCP currentmeter data processing</i> for the personnel of the Hydrographic Institute of the Italian Navy.                                                                 |
| 14 <sup>th</sup> November 08 | Seminar at the Imperial College, London                                                                                                                                                                                 |
| 5 <sup>th</sup> November 08  | Seminar at the NOC, Southampton                                                                                                                                                                                         |
| October 08                   | Lecture on <i>Practical session on water masses properties and identification</i> , MSc Course "Introduction to Physical Oceanography" held by H.L. Bryden, NOC, Southampton.                                           |
| September 08                 | Lecture on <i>Practical session on water masses properties and identification</i> , ESF MedCLIVAR Summer School on "Climate Variability over the Mediterranean area: Atmospheric and Oceanic Components", Rhodes.       |
| March 08                     | Assistance for the operational and technical management of the ADCP mounted on the vessel ARETUSA owned by the Hydrographic Institute of the Italian Navy.                                                              |

January 07 Co-teacher during a training course about *ADCP currentmeter data processing* for the personnel of the Hydrographic Institute of the Italian Navy.

### **Supervision and reviews**

Co-supervision of the master thesis by Caterina Michelucci, 2007, University of Pisa, Faculty of Engineering: "Organizzazione di dati oceanografici con impiego di repository ebXML" (Organization of oceanographic data by means of a ebXML repository).

Reviewer for *Deep Sea Research*, *Geophysical Research Letters*, *Journal of Marine Systems*, *Ocean Sciences*, *Journal of Geophysical Research*, *Ciencias Marinas*, *International Journal of Climatology*, *Continental Shelf Research*, *Scientia Marina*, *Climate Dynamics*, *Journal of Climate*.

### **Oceanographic Cruises**

April-May 2011 Oceanographic Cruise **EUROFLEETS11** (21/04/11-07/05/11) in the Adriatic, Ionian and Tyrrhenian Sea on the R/V URANIA: CTD casts and data elaboration, LADCP and VM-ADCP management and data elaboration, sampling for nutrients, oxygen and salinity, floats deployment, mooring maintenance.

August 2010 Oceanographic Cruise **VENUS1** (leg1, 31/07/10-17/08/10) in the Western Mediterranean Sea on the R/V URANIA: CTD casts and data elaboration, LADCP and VM-ADCP management and data elaboration, sampling for nutrients, oxygen and salinity.

July 2010 Oceanographic Cruise **LIDEX10** (02/07/10-06/07/10) in the Ligurian Sea on the R/V MARIA GRAZIA: CTD casts and data elaboration, drifters deployment and recovery, ARVOR float deployment, glider deployment.

May 2009 Oceanographic Cruise **TYRRMOUNTS09** (leg1, 08/05/09-19/05/09) in the Ionian Sea and the Strait of Sicily on the R/V URANIA: CTD casts and data elaboration, LADCP and VM-ADCP management and data elaboration, sampling for nutrients.

March 2009 Oceanographic Cruise **ADRIASEISMIC09** (03/03/09-16/03/09) in the southern Adriatic Sea on the R/V URANIA: CTD casts and data elaboration, LADCP and VM-ADCP management and data elaboration, XBT data elaboration.

April 2008 Oceanographic Cruise **SESAME-IT4** (26/03/08-11/04/08) in the Western Mediterranean Sea on the R/V URANIA: CTD casts and data elaboration, LADCP and VM-ADCP management and data elaboration, sampling for

nutrients.

- March 2008 Oceanographic Cruise **SESAME-Km3** (11/03/08-25/03/08) in the Ionian Sea and the Strait of Sicily on the R/V URANIA: CTD casts and data elaboration, LADCP and VM-ADCP management and data elaboration, sampling for nutrients.
- July 2007 Oceanographic Cruise **Km3Net07** (18/07/07-31/07/07) in the Ionian Sea on the R/V URANIA: CTD casts and data elaboration, LADCP and VM-ADCP management and data elaboration, sampling for nutrients.
- July 2006 Oceanographic Cruise **SIRENA06/ZIFIO06** (17/07/06-26/07/06) in the Ligurian Sea on the NRV ALLIANCE of the NATO Undersea Research Centre (NURC): CTD casts and data elaboration, LADCP management and data elaboration, Nv Shuttle, sampling for nutrients.
- June 2006 – July 2006 Oceanographic Cruise **MEDOCC06** (08/06/06-03/07/06) in the Western Mediterranean Sea on the R/V URANIA: CTD casts and data elaboration, LADCP and VM-ADCP management and data elaboration, sampling for nutrients.
- November-December 2005 Oceanographic Cruise **MEDGOOS11** (16/11/05-03/12/05) in the Western Mediterranean Sea on the R/V URANIA: sampling for nutrients, VM-ADCP, LADCP, Nv Shuttle and redaction of the Cruise Report.
- September 2005 Oceanographic Cruise **MARMES** (12/09/05-16/09/05) in the Ligurian Sea on the R/V ARETUSA (Hydrographic Institute of the Italian Navy): sampling for nutrients, chlorophyll, phytoplankton, sediment, setting and testing of the VM-ADCP.
- April 2005 - May 2005 Oceanographic Cruise **MEDOCC05** (24/04/05-16/05/05) in the Western Mediterranean Sea on the R/V URANIA: sampling for nutrients, Caesium-137, Thorium-238, chlorophyll, phytoplankton, sediment, POC, TSS.

### **Lab activities**

Nutrient laboratory (ENEA-CRAM): sample preparation and dissolved inorganic nutrient analysis in seawater.

Environmental radioactivity laboratory (ENEA-CRAM): sample preparation and analysis of radioactive tracers in seawater.

Applied Ecotoxicology laboratory (Environmental Science Department, University of Venice): Chemical and ecotoxicological analysis in lagoon sediments and ecosystems.

Environmental Chemistry laboratory (Environmental Science Department, University of Venice): organic pollutants analysis in sediments and mussel tissues.

Nutrient laboratory (University of Kiel): Dissolved inorganic/organic nutrients in seawater and interstitial water of sediments.

## 5. PUBLICATIONS

### Peer-reviewed publications

1. Ben Ismail Hamouda S., K. Schroeder, C. Sammari, G.P. Gasparini, L. Aleya, 2012. *Interannual variability of water mass properties in the Sicily Channel from 1995 to 2009*. J. Mar. Sys., **submitted**.
2. Placenti F., K. Schroeder, A. Bonanno, S. Zgozi, M. Sprovieri, G. Gasparini, M. Borghini, P. Rumolo, G. Cerrati, S. Bonomo, S. Genovese, G. Basilone, D.A. Haddoud, B. Patti, A. El Turki, M. Hamza, S. Mazzola, 2012. *Water masses and nutrient distributions in the Gulf of Syrte and between Sicily- Libya area*. J. Mar. Sys., **submitted**.
3. Alvarez A., Chiggiato J., Schroeder K., 2012. *Mapping sub-surface geostrophic currents from altimetry and a fleet of gliders*. Deep Sea Research, **submitted**.
4. Puig P., Durrieu De Madron X., Schroeder K., Salat J., Lopez-Jurado J.L., Gasparini G.P., Palanques A., Emelianov M., Karageorgis A.P., Thecharis A.. *Thick bottom nepheloid layers in the Western Mediterranean generated by dense shelf water cascading events*. Progress in Oceanography, **submitted**.
5. Griffa A., A. Haza, T. M. Özgökmen, A. Molcard, V. Taillandier, K. Schroeder, Y. Chang, P.M. Poulain, 2011. *Investigating transport pathways in the ocean*. Deep Sea Research Part II, **submitted**.
6. Schroeder K., J. Chiggiato, A. C. Haza, A. Griffa, T. M. Ozgökmen, P. Zanasca, A. Molcard, M. Borghini, P. M. Poulain, R. Gerin, E. Zambianchi, P. Falco, C. Trees, 2012. *Targeted Lagrangian sampling of submesoscale dispersion at a coastal frontal zone*. Geophys. Res. Lett., doi:10.1029/2012GL051879, **in press**.
7. Kovačević V., B.B. Manca, L. Ursella, K. Schroeder, S. Cozzi, M. Burca, E. Mauri, R. Gerin, G. Notarstefano, D. Deponte, 2012. *Water mass properties and dynamical conditions of the Eastern Mediterranean in June 2007*. Progress in Oceanography, **accepted**.
8. Cucco, A., Sinerchia, M., Ribotti, A., Olita, A., Fazioli, L., Sorgente, B., Perilli, A., Borghini, M., Schroeder, K, and Sorgente, R., 2012. *A high resolution real time forecasting system for predicting the fate of oil-spills in the Strait of Bonifacio (western Mediterranean)*. Marine Pollution Bulletin, **accepted**.
9. Vargas-Yáñez M., P. Zunino, K. Schroeder, J.L. López-Jurado, F. Plaza, M. Serra, C. Castro, M.C. García-Martínez, F. Moya, 2012. *Extreme Western Intermediate Water formation in winter 2010*. J. Mar. Syst, **accepted**.
10. Schroeder K., C. Millot, L. Bengara, S. Ben Ismail, M. Bensi, M. Borghini, G. Budillon, V. Cardin, L. Coppola, C. Curtil, A. Drago, B. El Moumni, J. Font, J.L. Fuda, J. García-Lafuente, G.P. Gasparini, H. Kontoyiannis, D. Lefevre, P. Puig, P. Raimbault, G. Rougier, J. Salat, C. Sammari, J.C. Sánchez Garrido, A. Sánchez-



- Roman, S. Sparnocchia, C. Tamburini, I. Taupier-Letage, A. Theocharis, M. Vargas-Yáñez, and A. Vetrano, 2012. *Long-term monitoring programme of the hydrological variability in the Mediterranean Sea: a first overview of the HYDROCHANGES network*. Ocean Sci. Discuss., 9, 1741-1812, doi:10.5194/osd-9-1741-2012.
11. Cucco, A., A. Ribotti, A. Olita, L. Fazioli, B. Sorgente, M. Sinerchia, A. Satta, A. Perilli, M. Borghini, K. Schroeder, R. Sorgente, 2012. *Oil spills prediction in the Bonifacio strait area, western Mediterranean*. Ocean Sci. Discuss., 9, 585-609, doi:10.5194/osd-9-585-2012.
  12. Zunino P., Schroeder K., Vargas-Yanez M., Gasparini G.P., Coppola L., García-Martínez M.C., Moya-Ruiz F., 2012. *Thermohaline variability on isopycnal and isobaric surfaces associated to the Western Mediterranean Transition*. J. Mar. Syst., 96–97, 15–23, doi: 10.1016/j.jmarsys.2012.01.011.
  13. Schroeder, K., Haza, A. C., Griffa, A., Özgökmen, T. M., Poulain, P.-M., R. Gerin, G. Peggion, M. Rixen, 2011. *Relative dispersion in the Liguro-Provençal basin: from submesoscale to mesoscale*. Deep Sea Research, Part I, doi:10.1016/j.dsr.2010.11.004.
  14. Bo M., M. Bertolini, M. Borghini, M. Castellano, A. Covazzi Harriague, C.G. Di Camillo, G.P. Gasparini, C. Misic, P. Povero, A. Pusceddu, K. Schroeder, G. Bavestrello, 2011. *Characteristics of the Mesophotic Megabenthic Assemblages of the Vercelli Seamount (North Tyrrhenian Sea)*. PLoS ONE 6(2): e16357. doi:10.1371/journal.pone.0016357.
  15. Sparnocchia S., Gasparini G.P., Schroeder K., Borghini M., 2011. *Oceanographic conditions in the NEMO region during KM3NeT project (April 2006 - May 2009)*. Nucl. Instr. And Meth. A, doi:10.1016/j.nima.2010.06.231.
  16. Schroeder K., Josey S. A., Herrmann M., Grignon L., Gasparini G.P., Bryden H.L., 2010. *Abrupt warming and salting of the Western Mediterranean Deep Water: atmospheric forcings and lateral advection*. J. Geophys. Res., doi: 10.1029/2009JC005749 (Research Highlights, Nature Geoscience, Vol.3, 2010).
  17. Grignon L., Smeed D., Bryden H.L., Schroeder K., 2010. *Importance of the Variability of Hydrographic Preconditioning for Deep Convection in the Gulf of Lion, NW Mediterranean*. Ocean Sci., 6, 573–586, doi:10.5194/os-6-573-2010.
  18. Vetrano A., E. Napolitano, R. Iacono, K. Schroeder and G.P. Gasparini, 2010. *Tyrrhenian Sea Circulation and water mass fluxes in Spring 2004: Observations and model results*. J. Geophys. Res., 115, C06023, doi:10.1029/2009JC005680.
  19. Schroeder K., Gasparini G.P., Borghini M., Cerrati G., Delfanti R., 2010. *Biogeochemical tracers and fluxes in the Western Mediterranean Sea, spring 2005*. J. Mar. Sys., doi: 10.1016/j.jmarsys.2009.08.002.
  20. Budillon G., Gasparini G.P., Schroeder K., 2009. *Persistence of an Eddy Signature in the Central Tyrrhenian Basin*. Deep Sea Research, Part II, 56: 713-724. doi:10.1016/j.dsr2.2008.07.027.
  21. Schroeder K., Ribotti A., Borghini M., Sorgente R., Perilli A., Gasparini G.P., 2008. *An extensive Western Mediterranean Deep Water Renewal between 2004 and 2006*. Geophys. Res. Lett., 35, L18605, doi: 10.1029/2008GL035146.

22. Schroeder K., Taillandier V., Vetrano A., Gasparini G.P., 2008. *The circulation of the Western Mediterranean Sea in spring 2005 as inferred from observations and from model outputs*. Deep Sea Research, Part I, 55, 947-965.
23. Gasparini G.P., Bonanno A., Zgozi S., Basilone G., Borghini M., Buscaino G., Cutitta A., Essarbout N., Mazzola S., Patti B., Ramadan A.B., Schroeder K., Bahri T., Massa F., 2008. *Evidence of a dense water vein along the Libyan continental margin*. Annales Geophysicae, 26, 1-6.
24. Schroeder K., Borghini M., Cerrati G., Difesca V., Delfanti R., Santinelli C., Gasparini G.P., 2008. *Multiparametric Mixing Analysis of the Deep Waters in the Western Mediterranean Sea*. Chemistry and Ecology, 24(1), 47-56.
25. Schroeder K., Gasparini G.P., Tangherlini M., Astraldi M., 2006. *Deep and Intermediate Water in the Western Mediterranean under the influence of the Eastern Mediterranean Transient*. Geophys. Res. Lett. 33, doi: 10.1029/2006GL02712.

### **Other publications (monographs, books)**

1. Schroeder K., J. Garcia-Lafuente, S.A. Josey, V. Artale, B. Buongiorno Nardelli, A. Carrillo, M. Gačić, G.P. Gasparini, M. Herrmann, P. Lionello, W. Ludwig, C. Millot, E. Özsoy, G. Pisacane, J.C. Sánchez-Garrido, G. Sannino, R. Santoleri, S. Somot, M. Struglia, E. Stanev, I. Taupier-Letage, M.N. Tsimplis, M. Vargas-Yáñez, V. Zervakis, G. Zodiatis, 2012. *Chapter 3: Circulation of the Mediterranean Sea and its variability*. In: The Climate of the Mediterranean Region, from the past to the future. Ed. P. Lionello. Elsevier Insights, Amsterdam.
2. Lionello P., Abrantes F., Congedi L., Dulac F., Gomis D., Goodess C., Hoff H., Kutiel H., Luterbacher J., Planton S., Reale M., Schroeder K., Struglia M.V., Toreti A., Tsimplis M., Ulbrich U., Xoplaki E., 2012. *Introduction: Mediterranean Climate – Background Information*. In: The Climate of the Mediterranean Region, from the past to the future. Ed. P. Lionello. Elsevier Insights, Amsterdam.
3. Schroeder K., G.P. Gasparini, M. Borghini, S. Sparnocchia, A. Vetrano, F. Grilli, M. Marini, E. Paschini, 2012. *The monitoring of thermohaline variability in the Mediterranean combining continuous strait measurements and periodic basin scale surveys*. In: Designing Med-SHIP: a Program for repeated oceanographic surveys, CIESM Workshop Monographs, n.º 43, Supetar (Brac Island, Croatia) (<http://www.ciesm.org/online/monographs/Brac.html>).
4. Gasparini G.P., Schroeder K., Sparnocchia S., Borghini M., 2011. *Interannual Variability in the Mediterranean Sea: a Long-Term Monitoring Strategy*. In: Marine Research at CNR. Ed.: Consiglio Nazionale delle Ricerche - Roma, pg. 1487-1493.
5. Vetrano A., K. Schroeder, G.P. Gasparini, E. Napolitano, R. Iacono, 2011. *Tyrrhenian Sea Circulation: Observations and Model Results*. In: Marine Research at CNR. Ed.: Consiglio Nazionale delle Ricerche - Roma, pg. 1337-1348.
6. Ribotti A., M. Borghini, K. Schroeder, A. Satta, B. Sorgente, R. Gerin, A. Cucco, A. Olita, L. Fazioli, R. Giovannini, R. Sorgente, 2011. *Current Measurements in the Bonifacio Mouths and La Maddalena Archipelago: First Analyses*. In: Marine Research at CNR. Ed.: Consiglio Nazionale delle Ricerche - Roma, pg. 891-902.

7. Griffa A., K. Schroeder, S. Aliani, A. Doglioli, A. Molcard, V. Taillandier, P.M. Poulan, T. Ozgokmen, A. Haza, 2011. *The Roads of the Sea - Can We Predict the Motion of Particles Carried by Ocean Currents?* In: Marine Research at CNR. Ed.: Consiglio Nazionale delle Ricerche - Roma, pg. 1257-1268.
8. Bergamasco A., P. Del Negro, S. Aliani, K. Schroeder, M. Celussi, S. Carniel, M. Sclavo, 2011. *Antarctic Shelf Slope Dynamics and Deep Ventilation of the Southern Ocean*. In: Marine Research at CNR. Ed.: Consiglio Nazionale delle Ricerche - Roma, pg. 1303-1310.
9. Schroeder K., Gasparini G.P., Borghini M., Ribotti A., 2009. *Experimental evidences of the recent abrupt changes in the deep Western Mediterranean Sea*. In: Dynamics of Mediterranean Deep Waters, CIESM Workshop Monographs, n.° 38, Qwara, Malta (<http://www.ciesm.org/online/monographs/Malta.html>).
10. Gasparini G.P., Schroeder K., Sparnocchia S., 2008. *Straits and Channels as key regions of an integrated marine observatory of the Mediterranean: our experience on their long-term monitoring*. In: Towards Integrated Mediterranean Marine Observatories, CIESM Workshop Monographs, n.° 34, La Spezia, Italy.
11. Gasparini G.P., Schroeder K., Vetrano A., Astraldi M., 2007. *Canali e stretti quali punti di osservazione privilegiata per lo studio della variabilità interannuale nel bacino Mediterraneo*. In: Clima e cambiamenti climatici: le attività di ricerca del CNR. Ed.: Consiglio Nazionale delle Ricerche - Roma, pg. 521-524.
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1. Schroeder K. (***Invited***), G. P. Gasparini, H. L. Bryden, M. Borghini, S. Sparnocchia, A. Vetrano, 2011, *Thermohaline variability in the western Mediterranean Sea*. Workshop on the Variability of the Eastern and Western Mediterranean Circulation and Thermohaline Properties; Similarities and Differences, on the occasion of 25 years of the project Physical Oceanography of the Eastern Mediterranean – POEM, 7-9 November 2011, Rome.
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