

CURRICULUM VITAE

1. PERSONAL DETAILS

Katrin Schroeder

Researcher at CNR-ISMAR, Venice

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https://scholar.google.com/citations?hl=it&user=1xluf_0AAAAJ&view_op=list_works&sortby=pubdate

2. EDUCATION

With a M.Sc. in Environmental Sciences (cum laude, University of Venice, 2003) and a PhD in Environmental Sciences (University of Venice, 2008), her major research interests are experimental studies in physical and biogeochemical oceanography of the Mediterranean Sea.

The PhD was done 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).

3. EXPERTISE

CURRENT AND HYDROLOGICAL DATA ACQUISITION AND PROCESSING; BIOGEOCHEMICAL DATA ACQUISITION AND ANALYSIS; OCEANOGRAPHIC DATA ANALYSIS AND INTERPRETATION; INVERSE METHODS APPLICATION; SPECIFIC SOFTWARES USAGE; MATLAB AND FORTRAN PROGRAMMING;
VERY GOOD GERMAN, ITALIAN AND ENGLISH KNOWLEDGE

4. ERC SECTOR

PE10 EARTH SYSTEM SCIENCE: PHYSICAL GEOGRAPHY, GEOLOGY, GEOPHYSICS, METEOROLOGY, OCEANOGRAPHY, CLIMATOLOGY, ECOLOGY, GLOBAL ENVIRONMENTAL CHANGE, BIOGEOCHEMICAL CYCLES, NATURAL RESOURCES MANAGEMENT.

PE10_8 OCEANOGRAPHY (PHYSICAL, CHEMICAL, BIOLOGICAL)

5. ACTIVITIES

Since November 2019 Senior Researcher (*primo ricercatore*) at **CNR - Institute of Marine Science** (Venice, Italy).

November 2011- Researcher at **CNR - Institute of Marine Science** (Venice, Italy).
November 2019

Awards and scientific recognitions

In May 2020 she has been elected member of the **Executive Committee** of the **EMB-European Marine Board** (<https://www.marineboard.eu/excom>)

Since June 2019 she is the Italian National Correspondent at the **International Association for the Physical Sciences of the Oceans (IAPSO)**

Since October 2019 she is **Chair of the CIESM Committee** "Physics and Climate of the Ocean"

Since January 2018 she is alternate delegate for CNR at the **European Marine Board (EMB)**

Since 2017 she has been appointed to be a **member** of the **CNR Group for Ship Time Assignment** (Gruppo Istruttoria Navi, GIN).

She is currently **Associate Editor** for **Frontiers in Marine Science – Physical Oceanography Section**

She is currently **Guest Editor** for **Ocean Science** within an inter-journal special issue about the “Hydrological Cycle in the Mediterranean”

Starting from EGU2019 she is **co-convenor** of **Session OS2.2** “Advances in Understanding of the Multi-Disciplinary Dynamics of the Southern European Seas (Mediterranean and Black Sea)” at the annual **EGU General Assemblies** in Vienna.

In 2015 she was **Guest Editor** for the special issue in the journal “**Marine Geology**”, Volume 375 (pp 1-160) “Cascading Dense water Flow and its Impact on the Sea Floor in the Adriatic and Aegean Sea, Eastern Mediterranean”.

In 2019 she has been awarded by the **IUGG** with the **Early Career Scientist Award**.

In 2015 she has been presented the **Arne Richter Award for Outstanding Young Scientists** by the **EGU** “for her achievements in the field of experimental oceanography, to which she has contributed original ideas on the understanding of the formation and spreading of Mediterranean deep waters”.

In 2017 she has been nominated by the Accademia Nazionale dei Lincei to be the Italian **representative** within the **Working group on Climate Change and Education**, organized by the InterAcademy Partnership (IAP), which outcome was an IAP Statement that has been published and endorse at the Paris Conference “One Planet Summit” (www.interacademies.org/42426/A-Statement-on-Climate-Change-and-EducationPrint-Ready).

In 2015 she has been invited to the **EGU Conference** to give an **invited talk** entitled “One decade of enhanced thermohaline variability in the deep western Mediterranean Sea (2004-2014)” and the solicited **Medal Lecture** entitled “Modern view of Western Mediterranean hydrography”.

From 2012 to 2020 she has been **Coordinator** of the CIESM HYDROCHANGES Programme (<http://www.ciesm.org/marine/programs/hydrochanges.htm>).

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

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 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 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 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 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, 2010).

In May 2010 she has been invited as **Keynote Panel Speaker** at the 39th CIESM Congress.

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

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

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”.

Participation to Research Projects and Networks

Co-PI for the **PRIN 2017** project “PASS” (2019-2022)

Infrastructure Project “**JERICO S3**: Joint European Research Infrastructure of Coastal Observatories: Science, Service, Sustainability”, supported by the European Commission (H2020).

WP leader in the Italian **Marine Strategy Framework Directive** Implementation Project (since January 2017)

Coordinator of the **CIESM Hydrochanges** Programme (2012-2020)

Member of the **Steering Committee** of the Research Network **MEDCLIVAR** “Mediterranean CLimate VARIability and Predictability” (www.medclivar.eu/index.php/steering-committee-1).

Task Leader within the Research Project **COMMON SENSE** (“Cost-effective sensoris, interoperable with international existing ocean observing systems, to meet EU policies requirements”), supported by the European Commission (FP7).

Research Project **OCEAN-CERTAIN** (“Ocean Food-web Patrol – Climate Effects: Reducing Targeted Uncertainties with an Interactive Network”), supported by the European Commission (FP7).

Infrastructure Project “**JERICO-NEXT**: Joint European Research Infrastructure network for Coastal Observatory – Novel European eXpertise for coastal observaTories”, supported by the European Commission (H2020).

Subtask Leader and coordinator of the CNR-ISMAR activities within the 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**)”.

Supervision and reviews

Supervisor of the **PhD** student Lorenzo Pasculli, ongoing, University of Venice: “Variability of mass and nutrients exchanges between the western and the eastern Mediterranean Sea”

Supervisor of the **PhD** student Francesco De Rovere, ongoing, University of Venice: “Transition of Kongsfjorden’s climate from Arctic to Atlantic: water mass variability and atmospheric drivers”

Supervisor of the **PhD** student Malek Belgacem, 2021, University of Venice: “Spatial and temporal variability of the biogeochemical characteristics of the water masses in the Western Mediterranean Sea”

Supervisor of the **PhD** student Simona Aracri, 2018, University of Southampton: “Seasonal and interannual variability of circulation and water mass properties in the Ligurian Sea (NW-Mediterranean Sea)”

Supervisor of the **PhD** student Sara Durante, 2017, Università Parthenope Napoli: “Deep circulation and mixing in the Tyrrhenian Sea”.

Supervisor of the **master** student Davide Guerra, 2017, University of Venice, Faculty of Environmental Sciences: “Physical-chemical parameters used as tracers for western Mediterranean water masses: dissolved oxygen and salinity measurements for sensor calibration”.

Supervisor of the **master** student Luisa Gordillo, 2017, University of Venice, Faculty of Environmental Sciences: “Temporal and spatial dynamics of the nutricline along a repeated transect in the Western Mediterranean Sea”

Supervisor of the **master** student Giovanna Massucco, 2013, University of Genova, Faculty of marine Environmental Sciences: “Biogeochemical properties of the water masses in the Western Mediterranean Sea: distribution and interannual variability”.

Supervisor of the **master** student Caterina Michelucci, 2007, University of Pisa, Faculty of Engineering: “Organization of oceanographic data by means of an 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*, *Geology*, *Earth System Science Data*, *Ocean Modelling*, *Scientific Reports*, *Frontiers in Marine Sciences*, *Journal of Operational Oceanography*, etc.

Oceanographic Cruises

June 2020	SNAPSHOT 2 (09-10/06/20) in the northern Adriatic Sea on the R/V DALLAPORTA.
March 2017	VENUS4 (25/03/17-04/04/17, co-PI) in the Western Mediterranean on the R/V MINERVAUNO.
August 2016	TALPRO16 (18/08/16-29/08/16, co-PI) in the Western Mediterranean on the R/V ANGELES ALVARIÑO.
June 2013	VENUS2 (04/06/13-17/06/13, Chief Scientist) in the Western Mediterranean on the R/V URANIA.
April-May 2011	EUROFLEETS11 (21/04/11-07/05/11) in the Adriatic, Ionian and Tyrrhenian on the R/V URANIA.
August 2010	VENUS1 (leg1, 31/07/10-17/08/10) in the Western Mediterranean Sea on the R/V URANIA.
July 2010	LIDEX10 (02/07/10-06/07/10) in the Ligurian Sea on the R/V MARIA GRAZIA.
May 2009	TYRRMOUNTS09 (leg1, 08/05/09-19/05/09) in the Ionian and Strait of Sicily on the R/V URANIA.
March 2009	ADRIASEISMIC09 (03/03/09-16/03/09) in the southern Adriatic Sea on the R/V URANIA.
April 2008	SESAME-IT4 (26/03/08-11/04/08) in the Western Mediterranean on the R/V URANIA.
March 2008	SESAME-Km3 (11/03/08-25/03/08) in the Ionian Sea and the Strait of Sicily on the R/V URANIA.
July 2007	Km3Net07 (18/07/07-31/07/07) in the Ionian Sea on the R/V URANIA.
July 2006	SIRENA06/ZIFIO06 (17/07/06-26/07/06) in the Ligurian Sea on the NRV ALLIANCE of the NATO Undersea Research Centre (NURC)
June-July 2006	MEDOCC06 (08/06/06-03/07/06) in the Western Mediterranean Sea on the R/V URANIA
November 2005	MEDGOOS11 (16/11/05-03/12/05) in the Western Mediterranean Sea on the R/V URANIA
September 2005	MARMES (12/09/05-16/09/05) in the Ligurian Sea on the R/V ARETUSA (Hydrographic Institute of the Italian Navy)
April-May 2005	MEDOCC05 (24/04/05-16/05/05) in the Western Mediterranean Sea on the R/V URANIA

6. PUBLICATIONS

She authored or co-authored 64 peer-reviewed scientific papers, 5 book chapters, 11 monographs and short articles and more than 200 congress presentations, some of them on invitation.

Citation indices: Citations 2854, H-Index 31, i10-index 53

Please check here: https://scholar.google.com/citations?user=1xluf_0AAAAJ&hl=en

Peer-reviewed publications

2022

1. Paolo Montagna, Christophe Colin, Martin Frank, Tjördis Störli, Toste Tanhua, Micha J.A. Rijkenberg, Marco Taviani, Katrin Schroeder, Jacopo Chiggiato, Guohui Gao, Arnaud Dapoigny, Steven L. Goldstein, Dissolved neodymium isotopes in the Mediterranean Sea, *Geochimica et Cosmochimica Acta*, 2022, <https://doi.org/10.1016/j.gca.2022.01.005>.

2021

2. Lo Bue N, Artale V and Schroeder K (2021) Editorial: Impact of Deep Oceanic Processes on Circulation and Climate Variability: Examples From the Mediterranean Sea and the Global Ocean. *Front. Mar. Sci.* 8:801479. doi: 10.3389/fmars.2021.801479.
3. von Schuckmann K., Pierre-Yves Le Traon, [...], Katrin Schroeder, [...]. 2021. Copernicus Marine Service Ocean State Report, Issue 5, *Journal of Operational Oceanography*, 14:sup1, 1-185, DOI: 10.1080/1755876X.2021.1946240.

4. Vladioiu A., P. Bouruet-Aubertot, Y. Cuypers, B. Ferron, K. Schroeder, M. Borghini, S. Leizour. *Contrasted mixing efficiency in energetic versus quiescent regions: insights from microstructure measurements in the Western Mediterranean Sea*, Progress in Oceanography, 102594.
5. Bonomo S., K. Schroeder, A. Cascella, I. Alberico, F. Lirer. *Living coccolithophore communities in the Central Mediterranean Sea (Summer 2016): Relations between ecology and oceanography*. Marine Micropaleontology, 101995.
6. Ferron B., P. Bouruet-Aubertot, K. Schroeder, H. Bryden, M. Borghini, Y. Cuypers. *Contribution of thermohaline staircases to deep water mass modifications in the Western Mediterranean Sea from microstructure observation*. Frontiers in Marine Science 8, 544.

2020

7. Margaritelli G., Lirer F., Schroeder K., Alberico I., Dentici M.P., Caruso A. 2020. *Globorotalia truncatulinoides in Central - Western Mediterranean Sea during the Little Ice Age*. Marine Micropaleontology, 161, 101921, doi: 10.1016/j.marmicro.2020.101921.
8. Schroeder, K., Cozzi S., Belgacem M., Borghini M., Cantoni C., Durante S., Petrizzo A., Poiana A. & Chiggiato J., 2020. *Along-path evolution of biogeochemical and carbonate system properties in the Intermediate Water of the Western Mediterranean*. Frontiers in Marine Science 7: 375. doi: 10.3389/fmars.2020.00375.
9. Belgacem, M., Chiggiato, J., Borghini, M., Pavoni, B., Cerrati, G., Acri, F., Cozzi, S., Ribotti, A., Alvarez, M., Lauvset, S. K., and Schroeder, K. 2020. *Dissolved Inorganic Nutrients in the Western Mediterranean Sea (2004–2017)*, Earth Syst. Sci. Data, 12, 1985–2011, doi: 10.5194/essd-12-1985-2020.
10. Poulain, P.-M., E. Mauri, R. Gerin, J. Chiggiato, K. Schroeder, A. Griffa, M. Borghini, E. Zambianchi, P. Falco, P. Testor, L. Mortier, 2020. *On the dynamics in the southeastern Ligurian Sea in summer 2010*. Continental Shelf Research, 196, 104083, doi: 10.1016/j.csr.2020.104083.

2019

11. Schroeder, K., J. Chiggiato, S. Ben Ismail, M. Borghini, B. Patti, S. Sparnocchia (2019). *Mediterranean deep and intermediate water mass properties*. In: Copernicus Marine Service Ocean State Report, Issue 3, Journal of Operational Oceanography, 12:sup1, s26–s30; doi: 10.1080/1755876X.2019.1633075.
12. Tintoré, J., ... Schroeder K., ... (> 100 authors), 2019, *Challenges for Sustained Observing and Forecasting Systems in the Mediterranean Sea*. Front. Mar. Sci. | doi: 10.3389/fmars.2019.00568.
13. Testor, P., ... Schroeder K., ... (> 100 authors), 2019, *OceanGliders: a component of the integrated GOOS*. Frontiers in Marine Science 6, doi: 10.3389/fmars.2019.00422.
14. Vladioiu, A., Bouruet-Aubertot, P., Cuypers, Y., Ferron, B., Schroeder, K., Borghini, M., Leizour, S., Ben Ismail S.. *Mixing efficiency from microstructure measurements in the Sicily Channel*. Ocean Dynamics 1-21 (2019), <https://doi.org/10.1007/s10236-019-01274-2>.
15. Guerra, D., Schroeder, K., Borghini, M., Camatti, E., Pansera, M., Schroeder, A., Sparnocchia, S., and Chiggiato, J.: *Zooplankton diel vertical migration in the Corsica Channel (north-western Mediterranean Sea) detected by a moored acoustic Doppler current profiler*, Ocean Sci., 15, 631-649, <https://doi.org/10.5194/os-15-631-2019>, 2019.
16. Durante, S., Schroeder, K., Mazzei, L., Pierini, S., Borghini, M., Sparnocchia, S. (2019). *Permanent Thermohaline Staircases in the Tyrrhenian Sea*. Geophysical Research Letters, 46. <https://doi.org/10.1029/2018GL081747>.

2018

17. Vladioiu A., Bouruet-Aubertot P., Cuypers Y., Ferron B., Schroeder K., Borghini M., Leizour S., Ben Ismail S., 2018. *Turbulence in the Sicily Channel from microstructure measurements*, Deep Sea Research Part I: Oceanographic Research Papers, 137, 97-112, doi: 10.1016/j.dsr.2018.05.006.
18. Testor, P., Bosse, A., Houpert, L., ... Schroeder, K., ... (2018). *Multiscale observations of deep convection in the northwestern Mediterranean Sea During winter 2012–2013 using multiple platforms*. Journal of Geophysical Research: Oceans, 123, 1745–1776. <https://doi.org/10.1002/2016JC012671>.

2017

19. Buffett, G. G., Krahmann, G., Klaeschen, D., Schroeder, K., Sallarès, V., Papenberg, C., C. R. Ranero, Zitellini, N. (2017). *Seismic oceanography in the Tyrrhenian Sea: Thermohaline staircases, eddies, and internal waves*. Journal of Geophysical Research: Oceans, 122, 8503–8523. <https://doi.org/10.1002/2017JC012726>.
20. Jordà G., K. Von Schuckmann, S.A. Josey, G. Caniaux, J. García-Lafuente, S. Sammartino, E. Özsoy, J. Polcher, G. Notarstefano, P.-M. Poulain, F. Adloff, J. Salat, C. Naranjo, K. Schroeder, J. Chiggiato, G. Sannino, D. Macías. *The Mediterranean Sea heat and mass budgets: Estimates, uncertainties and perspectives*. Progress in Oceanography, 156 (2017), 174-208.
21. Ferron, B., P. Bouruet Aubertot, Y. Cuypers, K. Schroeder, and M. Borghini (2017), *How important are diapycnal mixing and geothermal heating for the deep circulation of the Western Mediterranean?*, Geophys. Res. Lett., 44, 7845–7854, doi:10.1002/2017GL074169.
22. Schroeder K., J. Chiggiato, S. A. Josey, M. Borghini, S. Aracri, S. Sparnocchia, 2017. *Rapid response to climate change in a marginal sea*. Scientific Reports 7, 4065, doi:10.1038/s41598-017-04455-5.

2016

23. Luna G.M., Chiggiato J., Quero G.M., Schroeder K., Bongiorno L., Kalenitchenko D. and Galand P.E. *Dense water plumes modulate richness and productivity of deep-sea microbes*. Environmental Microbiology (2016) 00(00), 00–00 doi:10.1111/1462-2920.13510.
24. Ravaioli M, C Bergami, F Riminucci, L Langone, V Cardin, A Di Sarra, S Aracri, M Bastianini, M Bensi, A Bergamasco, C Bommarito, M Borghini, G Bortoluzzi, R Bozzano, C Cantoni, J Chiggiato, E Crisafi, R D'Adamo, S Durante, C Fanara, F Grilli, M Lipizer, M Marini, S Miserocchi, E Paschini, P Penna, S Pensieri, A Pugnetti, F Raicich, K Schroeder, G Siena, A Specchiulli, G Stanghellini, A Vetrano, A Crise. *The RITMARE Italian Fixed-Point Observatory Network (IFON) for marine environmental monitoring: a case study*. Journal of Operational Oceanography Vol. 9 , Iss. sup1,2016.
25. Aracri S, M Borghini, D Canesso, J Chiggiato, S Durante, K Schroeder, S Sparnocchia, A Vetrano, T Honda, Y Kitawaza, H Kawahara, T Nakamura. *Trials of an autonomous profiling buoy system*. Journal of Operational Oceanography Vol. 9 , Iss. sup1,2016.
26. Schroeder K., J. Chiggiato, H. L. Bryden, M. Borghini and S. Ben Ismail. *Abrupt climate shift in the Western Mediterranean Sea*. Sci. Rep. 6, 23009; doi: 10.1038/srep23009 (2016).
27. Chiggiato J., Schroeder K., Trincardi F. *Preface: Cascading dense shelf-water during the extremely cold winter of 2012 in the Adriatic, Mediterranean Sea: Formation, flow, and seafloor impact*. Marine Geology 375 (1-4), doi: 10.1016/j.margeo.2016.03.002.

2015

28. Schroeder, K., T. Tanhua, H.L. Bryden, M. Álvarez, J. Chiggiato, and S. Aracri. 2015. *Mediterranean Sea Ship-based Hydrographic Investigations Program (Med-SHIP)*. Oceanography 28(3), <http://dx.doi.org/10.5670/oceanog.2015.71>.

29. Chiggiato J., Bergamasco A., Borghini M., Falcieri F.M., Falco P., Langone L., Miserocchi S., Russo A., Schroeder K., *Dense-water bottom currents in the Southern Adriatic Sea in spring 2012*, Marine Geology, doi: 10.1016/j.margeo.2015.09.005.
30. Cantoni C., Luchetta A., Chiggiato J., Cozzi S., Schroeder K., Langone L., *Dense water flow and carbonate system in the southern Adriatic: A focus on the 2012 event*, Marine Geology, doi: 10.1016/j.margeo.2015.08.013.

2014

31. Ben Ismail S., K Schroeder, C Sammari, GP Gasparini, M Borghini, L Aleya: *Interannual variability of water mass properties in the Tunisia–Sicily Channel*. Journal of Marine Systems 135, 14-28
32. Álvarez, M., Sanleón-Bartolomé, H., Tanhua, T., Mintrop, L., Luchetta, A., Cantoni, C., Schroeder, K., and Civitarese, G.: *The CO₂ system in the Mediterranean Sea: a basin wide perspective*, Ocean Sci., 10(1), 69-92, doi:10.5194/os-10-69-2014, 2014.
33. Borghini, M., Bryden, H.L., Schroeder, K., Sparnocchia, S., Vetrano, A.: *The Mediterranean is becoming saltier*. Ocean Sci., 10(4), 693-700, doi:10.5194/os-10-693-2014, 2014..
34. Casella, E., Tepsich, P., Couvelard, X., Caldeira, R., Schroeder, K.: *Ecosystem dynamics in the Liguro-Provençal Basin: the role of eddies in the biological production*. Mediterranean Marine Science, doi: 10.12681/mms.520, 2014.
35. Malanotte-Rizzoli, P., Artale, V., Borzelli-Eusebi, G. L., Brenner, S., Civitarese, G., Crise, A., Font, J., Gacic, M., Kress, N., Marullo, S., Ozsoy, E., Ribera d'Alcalà, M., Roether, W., Schroeder, K., Sofianos, S., Tanhua, T., Theocharis, A., Alvarez, M., Ashkenazy, Y., Bergamasco, A., Cardin, V., Carniel, S., D'Ortenzio, F., Garcia-Ladona, E., Garcia-Lafuente, J. M., Gogou, A., Gregoire, M., Hainbucher, D., Kontoyannis, H., Kovacevic, V., Krasakapoulou, E., Krokos, G., Incarbona, A., Mazzocchi, M. G., Orlic, M., Pascual, A., Poulain, P.-M., Rubino, A., Siokou-Frangou, J., Souvermezoglou, E., Sprovieri, M., Taupier-Letage, I., Tintoré, J., and Triantafyllou, G.: *Physical forcing and physical/biochemical variability of the Mediterranean Sea: a review of unresolved issues and directions for future research*, Ocean Sci., 10, 281-322, 2014.
36. Hainbucher, D., Rubino, A., Cardin, V., Tanhua, T., Schroeder, K., and Bensi, M.: *Hydrographic situation during cruise M84/3 and P414 (spring 2011) in the Mediterranean Sea*, Ocean Sci., 10(4), 669-682, 2014.
37. Bryden H.L., Schroeder K., Sparnocchia S., Borghini M., Vetrano A.: *Thermohaline staircases in the western Mediterranean Sea*. Journal of Marine Research 73(1), 1-18.

2013

38. Tanhua T., D. Hainbucher, K. Schroeder, V. Cardin, M. Alvarez, G. Civitarese, 2013. *The Mediterranean Sea system: a review and an introduction to the special issue*. Ocean Sci., 9, 789-803, doi:10.5194/os-9-789-2013.
39. Rice A.E., Book J.W., Carniel S., Russo A., Schroeder K., Wood W.T., 2013. *Spring 2009 water mass distribution, mixing and transport in the Southern Adriatic after a low production in winter dense waters*. Continental Shelf Research, 64, 33–50.
40. Placenti F., K. Schroeder, A. Bonanno, S. Zgozi, M. Sprovieri, M. Borghini, P. Rumolo, G. Cerrati, S. Bonomo, S. Genovese, G. Basilone, D.A. Haddoud, B. Patti, A. El Turki, M. Hamza, S. Mazzola, 2013. *Water masses and nutrient distributions in the Gulf of Syrte and between Sicily- Libya area*. J. Mar. Sys., 121-122, 36-46.
41. Schroeder K., C. Millot, L. Bengara, S. Ben Ismail, M. Bensi, M. Borghini, G. Budillon, V. Cardin, L. Coppola, C. Cutil, 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, 2013. *Long-term monitoring programme of the hydrological variability in the*

Mediterranean Sea: a first overview of the HYDROCHANGES network. Ocean Sci., 9, 1-24, doi:10.5194/os-9-1-2013.

42. Gacic M., K. Schroeder, Civitarese G., S. Cosoli, A. Vetrano, G. L. Eusebi-Borzelli, 2013. *Salinity in the Sicily Channel corroborates the role of the Adriatic–Ionian Bimodal Oscillating System (BiOS) in shaping the decadal variability of the Mediterranean overturning circulation*. Ocean Sci., 9, 83–90, doi:10.5194/os-9-83-2013.
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