



**Program**

<b>Tuesday November 14<sup>th</sup></b>		
<b>Location: Aula Magna Silvio Trentin Ca' Dolfin - Dorsoduro 3825/e 30123 (VE)</b>		
9:10 – 9:15	Angelo Rubino / Davide Zanchettin	Welcome speech
9:15 - 9:30	Paola Malanotte Rizzoli	Introductory Speech
9:30 – 10:00	Birgit Klein	A short personal retrospect of Wolfgang Roether's life and his dedication to the Mediterranean Sea
10:00 – 11:00	Paola Malanotte Rizzoli	The Mediterranean sea: a part of the global ocean and a laboratory for global processes
<i>11:00 – 11:30 COFFEE BREAK</i>		
11:30-12:00	Miroslav Gačić	Impact of EMT on the relative vorticity in the Eastern Mediterranean
12:00 – 12:20	Vincenzo Artale	Impact of stratification on the ocean internal variability
12:20 – 12:40	Simon Josey	From the Eastern Mediterranean Transient to the Recent Cessation of Convection in the Gulf of Lions: The Key Role Played by Winter Ocean Heat Loss (ONLINE)
<i>12:40 – 14:10 LUNCH BREAK (*)</i>		
14:10-14:30	Giuseppe Civitarese	The BIOS: ... what else?
14:30 – 14:50	Nunzia Pirro	The North Ionian Gyre vorticity changes: a driving mechanism for the Cyprus eddy and Rossby waves formation in the Levantine basin
14:50 – 15:10	Riccardo Martellucci	Recent changes of the dissolved oxygen distribution in the deep convection cell of the Southern Adriatic
15:10 – 15:30	Milena Menna	Salinity-driven dynamics of the central Mediterranean in the era of ocean warming
<i>15:30 – 16:00 COFFEE BREAK</i>		
16:00-16:20	Jadranka Šepić	The Mediterranean meteotsunamis
16:20 – 16:40	Steve Brenner	From pre-POEM to POEM to post-POEM: Insights on the circulation of the Levantine Basin from thirty-five years of high quality in situ measurements and ocean reanalysis
16:40-17:00	Tal Ozer / Isaac Gertman	Thermohaline and biochemical patterns in the Levantine upper and intermediate water, Southeastern Mediterranean Sea (1979-2022)
17:00-17:20	Dimitris Velaoras	First observation of a thermohaline staircase in the Cretan Sea
17:20-17:40	Gianluca Marino/Alessandra Negri	Spatial and bathymetric timing of organic-rich sedimentation in the eastern Mediterranean Sea
17:40 – 18:00	Maurizio Ribera d'Alcala'	The Carbon cycle in Mediterranean sea: past and present dynamics

(\*) at participants' cost

All talk slots, except key-note talks, include a 15-minute presentation and 5 minutes for discussion

### **Detailed list of contributions**

**Artale V.** (1, 2); Beatrice Giambenedetti (1, 3) and Nadia Lo Bue (1)

*Impact of stratification on the ocean internal variability*

(1) INGV, Rome;

(2) Ismar-CNR, Rome;

(3) Dipartimento di Fisica, Università di Tor Vergata, Rome

**Brenner, S.** (1), Zodiatis, G. (2), Gertman, I. (3), and Simoncelli, S. (4)

*From pre-POEM to POEM to post-POEM: Insights on the circulation of the Levantine Basin from thirty-five years of high quality in situ measurements and ocean reanalysis*

(1) Department of Geography and Environment, Bar Ilan University, Ramat Gan, Israel

(2) Coastal & Marine Research Lab, Institute of Applied and Computational Mathematics, Foundation for Research and Technology, Heraklion, Crete, Greece; and ORION Research, Nicosia, Cyprus

(3) Israel Oceanographic and Limnological Research, Haifa, Israel

(4) Istituto Nazionale di Geofisica e Vulcanologia, Bologna, Italy

**Civitarese G.** (1), Bensi M.(1), Gacic M. (1), Cardin V. (1), Dentico C. (1), Martellucci R. (1), Menna M. (1)

*The BiOS: ... what else?*

(1) OGS - Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, Italy

**Gačić M.** (1) Menna M. (1), Martellucci R. (1), Pirro A. (1)

*Impact of EMT on the relative vorticity in the Eastern Mediterranean*

(1) OGS, Trieste

**Josey S.** (1)

*From the Eastern Mediterranean Transient to the Recent Cessation of Convection in the Gulf of Lions: The Key Role Played by Winter Ocean Heat Loss*

(1) National Oceanography Centre, UK

**Klein B.** (1), all other former colleagues of Wolfgang involved in the Mediterranean work at the IUP (2)

*A short personal retrospect of Wolfgang Roether's life and his dedication to the Mediterranean Sea*

(1) Bundesamt fuer Seeschiffahrt und Hydrographie

(2) IUP, University of Bremen

**Malanotte-Rizzoli P.** (1)

*The Mediterranean sea : a part of the global ocean and a laboratory for global processes*

(1) Massachusetts Institute of Technology (MIT), Cambridge, MA, USA

**Marino G.**(1), Ruben Amezcua-Buendia (2), and **Alessandra Negri** (2)

*Spatial and bathymetric timing of organic-rich sedimentation in the eastern Mediterranean Sea*

(1) Centro de Investigación Mariña, Universidade de Vigo, GEOMA, Palaeoclimatology Lab, Vigo, Spain

(2) Department of Life and Environmental Sciences, Polytechnic University of Marche, Ancona, Italy

**Martellucci R. (1)**, Menna M. (1), Mauri E. (1), Pirro A. (1), Gerin R. (1), Paladini de Mendoza F. (2), Garić R. (3), Batistić M. (3), di Biagio V. (1), Giordano P. (4), Langone L. (4), Misericocchi S. (4), Gallo A. (1), Notarstefano G. (1), Bussani A.(1), Pacciaroni M.(1), Zuppelli P., Poulain P.-M. (5)  
*Recent changes of the dissolved oxygen distribution in the deep convection cell of the Southern Adriatic*

(1) National Institute of Oceanography and Applied Geophysics (OGS), Borgo Grotta Gigante, Trieste

(2) CNR-ISMAR, Arsenale Castello, Venice, Italy

(3) Institute for Marine and Coastal Research, University of Dubrovnik, Dubrovnik, Croatia.

(4) CNR-ISP, Bologna, Italy.

(5) Centre for Maritime Research and Experimentation (CMRE). La Spezia

**Menna M.** (1), Riccardo Martellucci (1), Miroslav Gačić (1), Annunziata Pirro (1), Giuseppe Civitarese (1), Carlotta Denticò (1), Elena Mauri (1), Vanessa Cardin (1)

*Salinity-driven dynamics of the central Mediterranean in the era of ocean warming*

(1) National Institute of oceanography and Applied Geophysics

**Ozer T. (1)**, **Gertman I. (1)**, Kress N. (1), Herut B. (1), Rahav E. (1), Silverman J. (1), Sisma-Ventura G. (1)

*Thermohaline and biochemical patterns in the Levantine upper and intermediate water, Southeastern Mediterranean Sea (1979-2022)*

(1) IOLR

**Pirro A.** (1), Maria Eletta Negretti (2), Rémi Laxenaire (3,4), Milena Menna (1), Riccardo Martellucci (1), Sabrina Speich (3), Elena Mauri (1)

*The North Ionian Gyre vorticity changes: a driving mechanism for the Cyprus eddy and Rossby waves formation in the Levantine basin*

(1) National Institute of Oceanography and Applied Geophysics (OGS), Trieste, Italy

(2) LEGI, CNRS UMR5519, University of Grenoble Alpes, Grenoble, France

(3) Laboratoire de Météorologie Dynamique, LMD-IPSL, UMR 8539, École Polytechnique, ENS, CNRS, Paris, France

(4) Laboratoire de l'Atmosphère et des Cyclones, LACy, UMR 8105, CNRS, Université de la Réunion, Météo-France, Saint-Denis de La Réunion, France

**Ribera d'Alcala' M.** (1,2), Della Volpe C. (3), Incarbona A. (4), Sabatino N. (5), Santinelli C. (6), Siboni S. (3), Sprovieri M. (2), Valenti D. (4)

*The Carbon cycle in Mediterranean sea: past and present dynamics*

(1) Stazione Zoologica Anton Dohrn, Napoli

(2) Istituto di Scienze Marine - CNR, Venezia

(3) Università degli Studi di Trento

(4) Università degli Studi di Palermo

(5) Istituto per lo Studio degli Impatti Antropici e la Sostenibilità - CNR, Palermo

(6) Istituto di Biofisica - CNR, Pisa

**Šepić J.** (1), Ivica Vilibić (2)

*The Mediterranean meteotsunamis*

(1) University of Split, Faculty of Science, Split, Croatia

(2) Ruđer Bošković Institute, Zagreb, Croatia

**Velaoras D.** (1)

*First observation of a thermohaline staircase in the Cretan Sea*

(1) Hellenic Centre for Marine Research