



Università  
Ca' Foscari  
Venezia

**International Conference THEMES 2018- Oceanic and atmospheric variability, from long-term trends to abrupt shifts**

28<sup>th</sup>-30<sup>th</sup> November 2018, Venice, Italy

## Program

<b>Wednesday 28<sup>th</sup> November</b>	
<i>Location: Aula Magna Silvio Trentin Ca'Dolfin - Dorsoduro 3825/e 30123 (VE)</i>	
8:30-8:50	<i>Registration and welcome drink/eat</i>
8:50-9:00	<b>Angelo Rubino</b> Opening and welcome speech
9:00-9:30	<b>Opening key-note talk: Michael Ghil</b> "Climate Variability, Long-Term Trends and Abrupt Shifts: A Dynamical Systems Perspective"
<b>Session 1: Chaired by Suzana Blesic</b> <i>Climate signals: past, present, future</i>	
9:30-9:45	<b>Piero Lionello</b> "Hydrological balance in the Mediterranean region: different dynamics from the last glacial maximum to the future climate change"
9:45-10:00	<b>Ivica Vilibic</b> "Long-term trends and variability in thermohaline properties of the northern Adriatic"
10:00-10:15	<b>Sara Rubinetti</b> " $\delta^{18}\text{O}$ record and the last deglaciation in the CT85-5 core from the Tyrrhenian sea"
10:15-10:30	<b>Georg Umgiesser</b> "Lithuanian coastal zone watershed modeling in the light of RCP4.5 and RCP8.5 for hydrology, water quality, sediment and bacteria transport"
10:30-11:00	<i>Coffee break for all participants</i>
11:00-11:15	<b>Giuliano Drossi</b> "Preservation of the isotopic signal in Alpine glaciers: the Adamello short core"
11:30-11:45	<b>Roberta D'Agostino</b> "Monsoon response to past and future forcing: a comparative study on monsoon dynamics in midHolocene and global warming scenario"

11:45-12:00	<b>Nicola Scafetta</b> “Evidences for a solar-astronomical origin of the decadal to multi-millennial climatic oscillations”
12:00-12:15	<b>Giulia Bonino</b> “A modelling framework for EBUS: from seasonal to decadal time scales”
12:15-12:30	<b>Antonio Ricchi</b> “The 2018 VAIA low pressure event: "perfect storm" or taste of future climate?”
12:30-14:00	<i>Lunch*</i>
14:00-14:30	<b>Key-note talk: Luigi Cavaleri</b> “How much do we understand of the ocean-atmosphere interaction? The “simple” case of wind waves”
<b>Session 2: Chaired by Milena Menna</b> <i>Climate monitoring: observations and analysis</i>	
14:30-14:45	<b>Enrico Zambianchi</b> “Tyrrhenian Sea dynamics: a compilation of a few decades worth of data”
15:00-15:15	<b>Hrvoje Mihanovic</b> “Resonant near-inertial oscillations at critical latitude from HF radar measurements”
15:15-15:30	<b>Chunxue Yang</b> “Historical Ocean Reanalyses using different assimilation strategies and atmospheric forcing”
15:45-16:00	<b>Francesco De Rovere</b> “Global Surface Temperature Datasets: Are the SST and MAT anomalies exchangeable for the determination of large-scale and long-term near-surface temperatures?”
16:00-16:30	<i>Coffee break for all participants</i>
<b>Session 3: Chaired by Manuel Bensi</b> <i>The Mediterranean “miniature ocean”</i>	
16:30-16:45	<b>Milena Menna</b> “Interaction between the decadal and interannual variability in the central Mediterranean Sea”
16:45-17:00	<b>Marco Reale</b> “Assessment of RegCM-ES performances over the Mediterranean region”
17:00-17:15	<b>Elisabeth Kubin</b> “Levantine Intermediate Water (LIW) formation - An Argo float study from 2000 - 2017”
17:15-17:30	<b>Matjaz Ličer</b> “20-year Sea Level and SST Trends on the Northern Adriatic Shelf from Numerical Modelling and Observations”
17:30-17:45	<b>Alessandro Bergamasco</b> “The Southern Tyrrhenian circulation modeling to study the jellyfish <i>Pelagia noctiluca</i> life cycle”

17:45-18:00	<b>Clea Denamiel</b> “Adriatic Sea and Coast (AdriSC) modelling suite: high resolution climate modelling”
18:00-18:30	<i>DISCUSSION</i>

<b>Thursday 29<sup>th</sup> November</b>	
<i>Location: Aula Mario Baratto, Ca’Foscari Palace, Dorsoduro 3246 - 30123 (VE)</i>	
8:30-9:00	<i>Registration and welcome drink/eat</i>
9:00-9:30	<b>Key-note talk: Thierry Penduff</b> “Low-frequency ocean variability: an atmospherically-modulated chaos”
<b>Session 4: Chaired by Sandro Carniel</b> <i>Dynamical systems</i>	
9:30-9:45	<b>Stefano Pierini</b> “On the identification of the oceanic low-frequency variability of intrinsic origin”
9:45-10:00	<b>Giusy Fedele</b> “Decadal variability of the Kuroshio Extension: The response of the jet to increased model resolution”
10:00-10:15	<b>Flavio Sartoretto</b> “On the solutions of Radial Shallow Water Equations”
10:30-11:30	<i>Coffee break for all participants and OPEN DISCUSSION</i>
<b>Session 5: Chaired by Giannetta Fusco</b> <i>Equatorial and polar climates</i>	
11:45-12:00	<b>Stefanie Talento</b> “Role of Extratropical Thermal Forcing on the Asian Summer Monsoons”
12:00-12:15	<b>Ivan Kuznetsov</b> “Evaluation and application of coastal model FESOM-C: south-east of the North Sea”
12:15-12:30	<b>Luigi Marziani</b> “Inter-hemispheric asymmetry in Arctic decadal warming events”
12:30-14:00	<i>Lunch*</i>
14:00-14:15	<b>Federica Facchinetti</b> “Seasonal to inter-annual variability of the East Greenland shelf: a study focused on the Sermilik Fjord area”

14:15-14:30	<b>Stanislav Martyanov</b> “Investigation of the relationship between primary production and sea ice in the Arctic seas: Assessment based on a small-component model of marine ecosystem”
14:30-14:45	<b>Pasquale Castagno</b> “Rebound of shelf water salinity in the Ross Sea (Antarctica)”
14:45-15:00	<b>Andrea Bergamasco</b> “Ross Sea Dynamics: what we learned from PNRA observations & sensitivity modeling”
15:00-15:30	<b>Key-note talk: Johann Jungclaus</b> “How does North Atlantic variability change in response to global warming?”
15:30-16:00	<i>Coffee break for all participants</i>
<b>Session 6: Chaired by Roberta d’Agostino</b> <i>Climate of the North Atlantic</i>	
16:00-16:15	<b>Svante Henriksson</b> “Multidecadal variability of North Atlantic temperatures and tropical cyclones - teleconnection and subsurface ocean mechanisms”
16:15-16:30	<b>Dario Nicoli</b> “Atlantic Multidecadal Variability: assessing climate impact in an idealized framework with a state-of-the-art model”
16:30-16:45	<b>Carlo Pinato</b> “Atlantic Multidecadal Oscillation: functional data analysis from a simulation ensemble”
16:45-17:00	<b>Salvatore Marullo</b> “The SST Inter-Annual and Multi-Decadal Oscillations in the Mediterranean Sea and North Atlantic Ocean”
<b>Session 7: Chaired by Stefano Pierini</b> <i>Extreme events</i>	
17:00-17:15	<b>Mirko Orlic</b> “Exponential rise and multidecadal variability of the Mediterranean sea level”
17:30-17:45	<b>Francesco Barbariol</b> “Global Extreme Wave Climate From Model Renalysis”
17:45-18:00	<b>Marco Bianucci</b> “How often do strong events of El Nino occur? inference insight from the Recharge Oscillator Model with a multiplicative perturbation”

20:30	<i>Social dinner*</i>
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## Friday 30<sup>th</sup> November

*Location: Auditorium Santa Margherita, Dorsoduro 3689 - 30123 (VE)*

### Session 8: Chaired by Davide Zanchettin *Statistics applied to climate research*

8:30-8:45	<b>Marco Marozzi</b> “Nonparametric tests for climate data”
8:45-9:00	<b>Maeregu Woldeyes Arisido</b> “Spatio-temporal bias characterization in a Bayesian framework”

9:00-9:30	<b>Key-note talk: Peter Brandt</b> “Changes in the tropical Atlantic oxygen minimum zone in perspective of global ocean deoxygenation”
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### Session 9: Chaired by Enrico Zambianchi *Environmental and biogeochemical observations and analysis*

9:30-9:45	<b>Jelena Dautovic</b> “Properties and dynamics of organic matter changes in the Adriatic: long-term investigation”
10:00-10:15	<b>Bor Krajnc</b> “Carbonate system in the Gulf of Trieste”
10:15-10:30	<b>Milan Čanković</b> “Long-term trends and biogeochemical cycling under euxinic condition in marine lake (Adriatic coast)”
10:30-11:00	<i>Coffee break for all participants</i>
11:00-11:15	<b>Stefano Aliani</b> “Floating Litter and its oceanic transport”
11:15-11:30	<b>Andrea Sfriso</b> “Distribution of microplastic fine particles in sediments from Gulfs of Aqaba and Venice.”
11:30-11:45	<b>Erika Porporato</b> “Mediterranean mussel growth under climate change: A modelling study carried out in the Northern Adriatic Sea”
11:45-12:00	<b>Christopher Loeffler</b> “A walkthrough the importance of interdisciplinary cooperation among toxicology, chemistry, and predictive models in marine environments.”

12:00-14:00

*Open end of the workshop*

*\*at participants' cost*

All talk slots, except key-note talks, include a 12-minute presentation and 3 minutes for discussion.

### **Detailed list of contributions**

Aliani Stefano<sup>1</sup>, Floating Litter and its oceanic transport. (1) CNR ISMAR

Antonio Ricchi<sup>1</sup>, Davide Bonaldo<sup>1</sup>, Sandro Carniel<sup>1</sup>, The 2018 VAIA low pressure event: "perfect storm" or taste of future climate?. (1) CNR-ISMAR, Arsenale-Tesa 104, Castello 2737/F, I-30122 Venice

Arisido Maeregu Woldeyes<sup>1</sup>, Carlo Gaetan<sup>2</sup>, Davide Zanchettin<sup>2</sup>, Jorge Lopez Parages<sup>2</sup>, Angelo Rubino<sup>2</sup>, Spatio-temporal bias characterization in a Bayesian framework (1) University of Milano-Bicocca; (2) Università Ca'Foscari di Venezia, Italy

Barbariol Francesco<sup>1</sup>, Alvise Benetazzo<sup>1</sup>, Jean Bidlot<sup>2</sup>, Luigi Cavaleri<sup>1</sup>, Mauro Sclavo<sup>1</sup>, Jim Thomson<sup>3</sup>, Global Extreme Wave Climate From Model Renalysis. (1) ISMAR-CNR, Venice, Italy; (2) ECMWF, Reading, UK; (3) APL, University of Washington, Seattle, USA

Bergamasco Alessandro<sup>1</sup>, Andrea Cucco<sup>2</sup>, Letterio Guglielmo<sup>3</sup>, Roberta Minutoli<sup>4</sup>, Giovanni Quattrocchi<sup>2</sup>, Rosanna Guglielmo<sup>5</sup>, Giacomo Zagami<sup>4</sup>, Antonia Granata<sup>4</sup>, The Southern

Tyrrhenian circulation modeling to study the jellyfish *Pelagia noctiluca* life cycle. (1) IAMC-ME; (2) IAMC-OR; (3) Conisma; (4) Univ. Messina; (5) St.Zool. A. Dohrn

Bergamasco Andrea<sup>1</sup>, Giorgio Budillon<sup>2</sup>, Giancarlo Spezie<sup>2\*</sup>, Florence Colleoni<sup>3</sup>, Laura De Santis<sup>3</sup>, Vedrana Kovacevic<sup>3</sup>, Cristian Florindo Lopez<sup>4</sup>, Laura de Steur<sup>5</sup>, Laura Ursella<sup>3</sup>, Dino Viezzoli<sup>3</sup>, Manuel Bensi<sup>3</sup>, Michele Rebesco<sup>3</sup>, Jenny Gales<sup>4,6</sup>, Ross Sea Dynamics: what we learned from PNRA observations & sensitivity modeling. (1) CNR ISMAR; (2) Un. Parthenope; (3) OGS; (4) NOC; (5) NPI; (6) SBMS

Bianucci Marco<sup>1</sup>, Antonietta Capotondi<sup>2</sup>, Riccardo Mannella<sup>3</sup>, Silvia Merlino<sup>1</sup>, How often strong events of El Nino occur? inference insight from the Recharge Oscillator Model with a multiplicative perturbation. (1) ISMAR La Spezia; (2) Boulder Univ. and NOAA Boulder; (3) Phys. Dept. Pisa Univ.

Blesic Suzana<sup>1</sup>, Davide Zanchettin<sup>1</sup>, Angelo Rubino<sup>1</sup>, Changes in the long term persistence of the sea surface temperature fluctuations in the last century. (1) Ca'Foscari University of Venice

Bonino Giulia<sup>1,2</sup>, Simona Masina<sup>2</sup>, Dorotea Iovino<sup>2</sup>, Andrea Storto<sup>3</sup>, Emanuele Di Lorenzo<sup>4</sup>, A modelling framework for EBUS: from seasonal to decadal time scales. (1) Ca'Foscari University; (2) Euro-Mediterranean Center on Climate Change, Bologna, Italy; (3) NATO STO-CMRE - Center of Maritime Research and Experimentation; (4) Program in Ocean Science & Engineering, Georgia Institute of Technology, Atlanta, USA

Brandt Peter<sup>1,2</sup>, Changes in the tropical Atlantic oxygen minimum zone in perspective of global ocean deoxygenation. (1) GEOMAR Helmholtz Centre for Ocean Research Kiel, Düsternbrooker Weg 20, 24105 Kiel, Germany; (2) Kiel University, 24098 Kiel, Germany

Brigolin Daniele<sup>1</sup>, Porporato Erika Maria Diletta<sup>1</sup>, Pranovi Fabio<sup>1</sup>, Pastres Roberto<sup>1</sup>, Mediterranean mussel growth under climate change: A modelling study carried out in the Northern Adriatic Sea. (1) Università Ca' Foscari Venezia

Čanković Milan<sup>1</sup>, Estefania Porca<sup>2</sup>, Iris Dupčić Radić<sup>3</sup>, Ivica Janeković<sup>1</sup>, Ines Petrić<sup>1</sup>, Irena Ciglencečki<sup>1</sup>, Gavin Collins<sup>2</sup>, Long-term trends and biogeochemical cycling under euxinic condition in marine lake (Adriatic coast). (1) Division for Marine and Environmental Research, Ruđer Bošković Institute, Zagreb, Croatia; (2) Microbial Communities Laboratory, National University of Ireland Galway, Galway, Ireland; (3) Institute for Marine and Coastal Research, Dubrovnik, Croatia

Carla Taricco<sup>1,2</sup>, Salvatore Mancuso<sup>2</sup>, Irka Hajdas<sup>3</sup>, Sara Rubinetti<sup>1,2</sup>,  $\delta^{18}O$  record and the last deglaciation in the CT85-5 core from the Tyrrhenian sea. (1) Dipartimento di Fisica,

Università di Torino, Italy; (2) Osservatorio Astrofisico di Torino (OATo, INAF), Torino, Italy; (3) Laboratory of Ion Beam Physics, ETH, Zürich, Switzerland

Castagno Pasquale<sup>1</sup>, Giorgio Budillon<sup>1</sup>, Giacomo R. DiTullio<sup>2</sup>, Pierpaolo Falco<sup>1</sup>, Giannetta Fusco<sup>1</sup>, Vincenzo Capozzi<sup>1</sup>, Stephen R. Rintoul<sup>3</sup>, Rebound of shelf water salinity in the Ross Sea (Antarctica). (1) Università degli Studi di Napoli "Parthenope", Napoli, Italia; (2) Grice Marine Laboratory, College of Charleston, Charleston, SC, USA; (3) CSIRO Oceans and Atmosphere, Antarctic Climate and Ecosystems Cooperative Research Centre, Centre for Southern Hemisphere Ocean Research, Hobart, Tasmania, Australia.

Cavaleri Luigi<sup>1</sup>, How much do we understand of the ocean-atmosphere interaction? The "simple" case of wind waves. (1) ISMAR-CNR

D'Agostino Roberta<sup>1</sup>, Juergen Bader<sup>1</sup>, Simona Bordoni<sup>2</sup>, Johann Jungclaus<sup>1</sup>, Monsoon response to past and future forcing: a comparative study on monsoon dynamics in midHolocene and global warming scenario. (1) Max Planck Institute for Meteorology; (2) California Institute of Technology

Dautovic Jelena<sup>1</sup>, Vjerocka Vojvodic<sup>1</sup>, Natasa Tepic<sup>2</sup>, Bozena Cosovic<sup>1</sup>, Irena Ciglenecki<sup>1</sup>, Properties and dynamics of organic matter changes in the Adriatic: long-term investigation. (1) Rudjer Boskovic Institute, Division for Marine and Environmental Research (DMER), Laboratory for physical oceanography and chemistry of aquatic systems, Bijenicka 54, 10 000 Zagreb, Croatia; (2) Koios consulting Ltd., Kemp House, 152 City Road, London, United Kingdom

De Rovere Francesco<sup>1</sup>, Angelo Rubino<sup>1</sup>, Davide Zanchettin<sup>1</sup>, Global Surface Temperature Datasets: Are the SST and MAT anomalies exchangeable for the determination of large-scale and long-term near-surface temperatures?. (1) Cà Foscari University of Venice, Italy

Denamiel Clea<sup>1</sup>, Ivica Vilibic<sup>1</sup>, Jadranka Sepic<sup>1</sup>, Damir Ivankovic<sup>1</sup>, Adriatic Sea and Coast (AdriSC) modelling suite: high resolution climate modelling. (1) Institute of Oceanography and Fisheries, Split, Croatia

Dreossi Giuliano<sup>1</sup>, Stenni B.<sup>2</sup>, Marchesini A.<sup>3</sup>, Bontempo L.<sup>3</sup>, Festi D.<sup>4</sup>, Brunetti M.<sup>5</sup>, Maggi V.<sup>6</sup>, Preservation of the isotopic signal in Alpine glaciers: the Adamello short core. (1) IDPA-CNR, Venice, Italy; (2) DAIS, Ca' Foscari University of Venice, Italy; (3) Edmund Mach Foundation, San Michele all'Adige (TN), Italy; (4) Free University of Bozen, Italy; (5) ISAC-CNR, Bologna, Italy; (6) Università degli Studi di Milano-Bicocca, Italy

Facchinetti Federica<sup>1,2</sup>, Simona Masina<sup>2</sup>, Doroteaciro Iovino<sup>2</sup>, Fiammetta Straneo<sup>3</sup>, Seasonal to inter-annual variability of the East Greenland shelf: a study focused on the Sermilik Fjord



area (1) Università Ca' Foscari, Venice, Italy; (2) Euro-Mediterranean Centre on Climate Change, Bologna, Italy; (3) Scripps Institution of Oceanography, San Diego, California, USA

Fedele Giusy<sup>1</sup>, Alessio Bellucci<sup>2</sup>, Simona Masina<sup>2</sup>, Stefano Pierini<sup>3</sup>, Decadal variability of the Kuroshio Extension: The response of the jet to increased model resolution. (1) Ca' Foscari University of Venice; (2) Euro-Mediterranean Center for Climate Change – CMCC; (3) Parthenope University of Naples"

Gacic Miroslav<sup>1</sup>, A. Rubino<sup>2</sup>, V. Kovacevic<sup>1</sup>, G. Civitarese<sup>1</sup>, V. Cardin<sup>1</sup>, M. Bensi<sup>1</sup>, R. Viana Barreto<sup>2</sup>, B. Petelin<sup>3</sup>, G. Siena<sup>1</sup>, BiOS CRoPEX; BiOS studies at the rotating platform LEGI, some introductory considerations. (1) Istituto Nazionale di Oceanografia e di Geofisica Sperimentale; (2) Università Ca' Foscari, Venezia; (3) Marine Biological Station, Piran, Slovenia

Ghil Michael<sup>1,2</sup>, Climate Variability, Long-Term Trends and Abrupt Shifts: A Dynamical Systems Perspective. (1) Ecole Normale Supérieure, Paris; (2) University of California, Los Angeles

Henriksson Svante<sup>1</sup>, Davide Zanchettin<sup>2</sup>, Multidecadal variability of North Atlantic temperatures and tropical cyclones - teleconnection and subsurface ocean mechanisms; (1) Finnish Meteorological Institute; (2) Ca' Foscari University of Venice

Jungclaus Johann<sup>1</sup>, Dian Putrasahan<sup>1</sup>, Rohit Ghosh<sup>1</sup>, How does North Atlantic variability change in response to global warming?. (1) Max Planck Institute for Meteorology, Hamburg, Germany

Krajnc Bor<sup>1</sup>, Samo Tamše<sup>1</sup>, Nives Ogrinc<sup>1</sup>, Carbonate system in the Gulf of Trieste. (1) Jožef Stefan Institute, Jamova cesta 39, 1000 Ljubljana, Slovenia, EU

Kubin Elisabeth<sup>1</sup>, P.-M. Poulain<sup>1</sup>, Elena Mauri<sup>1</sup>, Levantine Intermediate Water (LIW) formation - An Argo float study from 2000 – 2017. (1) OGS, Trieste

Kuznetsov Ivan<sup>1</sup>, Alexey Androsov<sup>1</sup>, Vera Fofonova<sup>1</sup>, Evaluation and application of coastal model FESOM-C: south-east of the North Sea. (1) Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Germany

Licer Matjaz<sup>1</sup>, Anja Fettich<sup>2</sup>, Peter Smerkol<sup>2</sup>, Maja Jeromel<sup>2</sup>, Simona Spehar<sup>2</sup>, Martin Vodopivec<sup>2</sup>, 20-year Sea Level and SST Trends on the Northern Adriatic Shelf from Numerical Modelling and Observations; (1) National Institute of Biology; (2) Slovenian Environment Agency

Lionello Piero<sup>1</sup>, Roberta D'Agostino<sup>2</sup>, Hydrological balance in the Mediterranean region: different dynamics from the last glacial maximum to the future climate change. (1) University of Salento and CMCC; (2) Max-Planck-Institut für Meteorologie

Loeffler Christopher<sup>1</sup>, Dorina Bodi<sup>1</sup>, Angelika Preiß-Weigert<sup>1</sup>, Luciana Tartaglione<sup>2</sup>, Carmela Dell'Aversano<sup>2</sup>, A walkthrough the importance of interdisciplinary cooperation among toxicology, chemistry, and predictive models in marine environments. (1) German Federal Institute for Risk Assessment; (2) University of Napoli Federico II

Marozzi Marco<sup>1</sup>, Rubino A.<sup>1</sup>, Zanchettin D.<sup>1</sup>, Nonparametric tests for climate data. (1) Ca' Foscari University of Venice

Martyanov Stanislav<sup>1</sup>, Dvornikov A.Yu.<sup>1,2,3</sup>, Ryabchenko V.A.<sup>1,2,3</sup>, Sein D.V.<sup>1,2,3</sup>, Gordeeva S.M.<sup>1</sup>, Investigation of the relationship between primary production and sea ice in the Arctic seas: Assessment based on a small-component model of marine ecosystem. (1) Shirshov Institute of Oceanology, Russian Academy of Sciences; Moscow, Russia; (2) Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research; Bremerhaven, Germany; (3) Russian State Hydrometeorological University; St. Petersburg, Russia

Marullo Salvatore<sup>1</sup>, Vincenzo Artale<sup>1</sup>, Andrea Pisano<sup>2</sup>, Federico Falcini<sup>2</sup>, Marco Bellacicco<sup>3</sup>, Rosalia Santoleri<sup>2</sup>, The SST Inter-Annual and Multi-Decadal Oscillations in the Mediterranean Sea and North Atlantic Ocean. (1) Centro Ricerche Frascati – ENEA; (2) ISMAR-CNR Roma; (3) Sorbonne Université, CNRS, Laboratoire d'Océanographie de Villefranche, LOV, F-06230 Villefranche-sur Mer, France

Marziani Luigi<sup>1</sup>, Giannetta Fusco<sup>1</sup>, Giorgio Budillon<sup>1</sup>, Davide Zanchettin<sup>2</sup>, Angelo Rubino<sup>2</sup>, Inter-hemispheric asymmetry in Arctic decadal warming events. (1) Università degli Studi di Napoli Parthenope; (2) Università Ca' Foscari Venezia

Masina Simona<sup>1</sup>, Chunxue Yang<sup>2</sup>, Andrea Storto<sup>3</sup>, Historical Ocean Reanalyses using different assimilation strategies and atmospheric forcing. (1) Fondazione Centro Euro-Mediterraneo sui Cambiamenti Climatici; (2) Istituto di Scienze Marine, Consiglio Nazionale delle Ricerche, Rome, Italy; (3) Centre for Maritime Research and Experimentation (CMRE), La Spezia, Italy

Menna Milena<sup>1</sup>, M. Gačić<sup>1</sup>, G. Civitarese<sup>1</sup>, N.C. Reyes Suarez<sup>1</sup>, P.-M. Poulain<sup>1,2</sup>, Interaction between the decadal and interannual variability in the central Mediterranean Sea. (1) OGS; (2) CMRE

Mihanovic Hrvoje<sup>1</sup>, Charitha Pattiaratchi<sup>2</sup>, Simone Cosoli<sup>2</sup>, Florence Verspecht<sup>2</sup>, Resonant near-inertial oscillations at critical latitude from HF radar measurements . (1) Institute

of Oceanography and Fisheries, Setaliste I. Mestrovica 63, 21000 Split, Croatia; (2) University of Western Australia, Faculty of Engineering and Mathematical Sciences, Oceans Graduate School, 35 Stirling Highway, Crawley WA 6009, Australia

Nicoli' Dario<sup>1</sup>, Alessio Bellucci<sup>1</sup>, Paolo Ruggieri<sup>1</sup>, Dorotea Iovino<sup>1</sup>, Atlantic Multidecadal Variability: assessing climate impact in an idealized framework with a state-of-the-art model. (1) CMCC Foundation

Orlic Mirko<sup>1</sup>, Miroslava Pasaric<sup>1</sup>, Zoran Pasaric<sup>1</sup>, Exponential rise and multidecadal variability of the Mediterranean sea level. (1) University of Zagreb, Faculty of Science, Department of Geophysics, Horvatovac 95, 10000 Zagreb, Croatia

Penduff Thierry<sup>1</sup>, S. Close<sup>1</sup>, G. Sérazin<sup>2</sup>, S. Leroux<sup>3</sup>, F.E. Yan<sup>1</sup>, I. Garcia-Gomez<sup>1</sup>, B. Barnier<sup>1</sup>, J.M. Molines<sup>1</sup>, L. Bessières<sup>4</sup>, L. Terray<sup>4</sup>, Low-frequency ocean variability: an atmospherically-modulated chaos (1) CNRS - IGE, Grenoble, France; (2) LEGOS, Toulouse, France; (3) Ocean Next, Grenoble, France; (4) CERFACS, Toulouse, France

Pierini Stefano<sup>1</sup>, On the identification of the oceanic low-frequency variability of intrinsic origin . (1) Università di Napoli Parthenope, Dipartimento di Scienze e Tecnologie

Pinato Carlo<sup>1</sup>, Carlo Gaetan<sup>2</sup>, Davide Zanchettin<sup>2</sup>, Atlantic Multidecadal Oscillation: functional data analysis from a simulation ensemble. (1) Università di Padova; (2) Università Ca'Foscari di Venezia, Italy

Reale Marco<sup>1,2</sup>, F.Giorgi<sup>1</sup>, C.Solidoro<sup>2</sup>, V.Di Biagio<sup>2</sup>, L.Mariotti<sup>2</sup>, F.Di Sante<sup>1,2</sup>, R.Farneti<sup>1</sup>, Assessment of RegCM-ES performances over the Mediterranean region. (1) ICTP; (2) OGS

Sartoretto Flavio<sup>1</sup>, Angelo Rubino<sup>1</sup>, On the solutions of Radial Shallow Water Equations. (1) Università Ca' Foscari Venezia

Scafetta Nicola<sup>1</sup>, Evidences for a solar-astronomical origin of the decadal to multi-millennial climatic oscillations. (1) Università degli Studi di Napoli Federico II

Sfriso Andrea Augusto<sup>1</sup>, Alberto Favaro<sup>2</sup>, Abdul-Salam Juhmani<sup>2</sup>, Cristina Munari<sup>1</sup>, Michele Mistri<sup>1</sup>, Distribution of microplastic fine particles in sediments from Gulfs of Aqaba and Venice. (1) Università degli Studi di Ferrara; (2) Università Ca' Foscari Venezia.

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