

AdriaClim

Climate change information, monitoring and management tools for
adaptation strategies in Adriatic coastal areas

Project ID: 10252001

D.2.3.1. Mid-term International Conference

PP6 – PI RERA SD

Version (final)

Public document

30 June, 2022

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Description

As part of the cross-border project AdriaClim, on June 7 & 8, 2022 in Split, Hotel Park, was held a hybrid two-day conference "Save the coast, adapt to climate change!". The conference gathered leading international experts, policy actors and decision makers in the field of the climate change. The main goals of the conference were raising awareness on the impacts of climate change on the Adriatic coast and to enable experts from universities, research and training centres to provide policymakers and the general public with up-to-date value-added information on the impact of climate change on the Adriatic Sea.

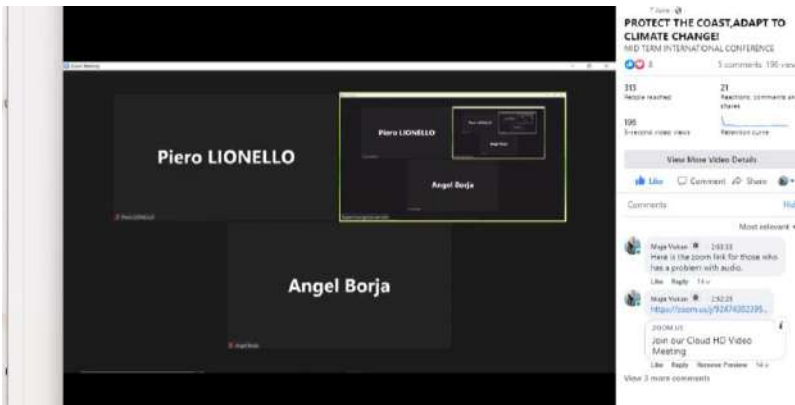
Agenda and speakers

As was mentioned before, Conference gathered leading international experts in the field of the climate change. Since conference organization started in the time of the covid restriction it was planned as a hybrid event. Some of the speakers were participated online Conference was promoted through regional medias, news in regional and local newspaper and portals, interviews with speakers about attractive climate change themes which attract a lot of interest and make conference successful.

The conference poster session provided an opportunity to other projects and practices implemented. In the poster sections, participants were represented results of current projects dealing with the conference topics: climate science, environmental science, or earth science. The posters were exhibited on both days in the conference venue, giving the participants opportunity for better networking, experience exchanging, visibility and promotion of their work.

RERA provided Call for posters invitation to all partners and get 9 applications. On the first day 69 people were attended conference in presence, and second day 61.

Facebook stream statistic shows that 313 people joined conference online.



Tuesday 7 June 2022 | Opening Session
09:00 – 10:00

1. Opening session

Time	Speaker	Topic
09:00 - 09:10		Registration
09:10 - 09:20	Matea Dorčić, Head of department, Split-Dalmatia County / Marjan Dumanić, PI RERA S.D.	Welcome / opening remarks from Local authorities and organizers 1

09:20 - 09:30	Marin Miletić , Project Manager, Joint Secretariat Interreg V A Italy - Croatia 2014-2020	Welcome speech from Interreg ITA-CRO Joint Secretariat
09:30 - 09:40	Andrea Valentini , AdriaClim Project Manager, Regional Agency for Prevention, Environment and Energy of Emilia-Romagna (ARPAE)	Introduction and welcome speech from AdriaClim project
09:40 - 10:00	Lidija Srnec , Head of Division, Croatian Meteorological and Hydrological Service (DHMZ)	Climate change projections for the Adriatic as a support for impact assessment

2. Climate Change and impacts on the coasts session

Time	Speaker	Topic
Chairperson: Tea Blažević		
10:00 - 10:20	Angel Borja , AZTI	Ocean health and human health: links and research agenda
10:20 - 10:40	Piero Lionello , University of Salento	The Adriatic Sea: what should we expect for the next 20-50 years? The new IPCC WGII report
10:40 - 11:00 Coffee break & Networking	<i><u>Coffee break & networking</u></i>	
	<i><u>Opening of the Posters Area</u></i> <i><u>Posters short introductions</u></i>	
11:00 - 11:20	Giovanni Coppini , Foundation Euro Mediterranean Centre on Climate Change (CMCC)	The United Nations Decade of Ocean Science for Sustainable Development (2021-2030) and perspective for coastal environments
11:20 - 11:40	Giancarlo Gusmaroli , Italian Centre for River Restoration - Med Sea Foundation,	Climate change impacts on place-based governance models

11:40 - 12:00	Veljko Srzić, Faculty of Civil Engineering, Architecture and Geodesy	Coastal system vulnerability to seawater intrusion in south eastern Adriatic sea
12:00 - 12:20	Carlo Cacciamani, National Agency for Meteorology and Climatology, ItaliaMeteo Agency	What Italy is doing to protect its coasts/territory from CC?
12:20 - 12:40	Sanda Skejić, The Institute of Oceanography and Fisheries Split (IZOR)	Potential impacts of climate change on marine primary producers
12:40 - 13:00	Open Discussion (among speakers and with the audience)	



Tuesday 8 June 2022

3. CC monitoring and observation: tools, models and innovations

Time	Speaker	Topic
Chairperson: Tea Blažević		
10:00 - 10:20	Angel Borja, AZTI	Ocean health and human health: links and research agenda
10:20 - 10:40	Piero Lionello, University of Salento	The Adriatic Sea: what should we expect for the next 20-50 years? The new IPCC WGII report
10:40 - 11:00 Coffee break & Networking	<i>Coffee break & networking</i>	
	<i>Opening of the Posters Area Posters short introductions</i>	
11:00 - 11:20	Giovanni Coppini, Foundation Euro Mediterranean Centre on Climate Change (CMCC)	The United Nations Decade of Ocean Science for Sustainable Development (2021-2030) and perspective for coastal environments
11:20 - 11:40	Giancarlo Gusmaroli, Italian Centre for River Restoration - Med Sea Foundation,	Climate change impacts on place-based governance models

11:40 - 12:00	Veljko Srzić , Faculty of Civil Engineering, Architecture and Geodesy	Coastal system vulnerability to seawater intrusion in south eastern Adriatic sea
12:00 - 12:20	Carlo Cacciamani , National Agency for Meteorology and Climatology, ItaliaMeteo Agency	What Italy is doing to protect its coasts/territory from CC?
12:20 - 12:40	Sanda Skejić , The Institute of Oceanography and Fisheries Split (IZOR)	Potential impacts of climate change on marine primary producers
12:40 - 13:00	Open Discussion (among speakers and with the audience)	

Posters



ADRI LIFE

The molecular life of the Adriatic Sea Phytoplankton ADRI LIFE

HRZZ
Croatian Science Foundation
Institutional Research Program (2017-2020)

Duration 01.03.2021 – 28.02.2025 **Total budget** KN 1,988 500.00

To understand the dynamics of marine phytoplankton and its reactions to changing environments (like e.g. global climate changes or land anthropogenic pressures) it is of great importance to understand the physiological basis at species at molecular level. This project will employ metatranscriptome analysis for this purpose and thus will drive the current research approaches of the involved institutes and in general for the regions towards research methodologies that involve high throughput methodologies and deep molecular biological analysis of marine environments and especially marine phytoplankton.

SAMPLING SITES



Key species from the Adriatic phytoplankton (CIM Culture Collection) will be subjected to a variety of culture conditions (e.g. changes in nutrient availability, temperature simulating Global climate change). We will analyse physiological reactions (e.g. changes in lipid production, morphology and enzymatic activity) and transcriptomes under the different culture conditions and establish a reference transcriptome project database. This reference transcriptome database will be used to increase the taxonomic and physiological resolution in the analysis of *in situ* metatranscriptomes, derived from field samples along spatio-temporal ecological gradients.



PROJECT TEAM

SCIENTIFIC TEAM



TECHNICAL SUPPORT TEAM



SCIENTIFIC CONSULTANTS



In situ metatranscriptomes will be analysed in the context of the respective ecological conditions and community compositions, taking into account the results from long terms observations of phytoplankton community compositions and oceanographic conditions along the investigated spatio-temporal gradients.

To further improve our understanding the phytoplankton physiology and transcriptomics we will compare results from the highly productive northern Adriatic and the oligotrophic southern Adriatic, where we can observe connected populations under very different conditions *in situ*.

PROJECT PARTNERS



1 of 1 CLIMATE INDICATORS BASED ON RIVER DISCHARGE IN THE ADRIATIC SEA USING EFAS (1991-2020)

Leonardo Aragão¹, Nadia Pinardi¹, Lorenzo Mentaschi¹, Giorgia Verrì², Alfonso Senatore³, Luca Fumari⁴, and Silvana Di Sabatino⁵

¹ Inter-Departmental Research Centre for Environmental Science (CRES), University of Bologna, Italy; ² Department of Physics and Astronomy "Augusto Righi", University of Bologna, Italy; ³ Centro Euro-Mediterraneo sui Cambiamenti Climatici, CNR, Italy; ⁴ Centro Studi per il Monitoraggio e la Modellazione Ambientale (COSMA), University of Calabria, Italy; ⁵ Via Sant'Alberto 163-48123 - Ravenna RA, Italy. leonardo.aragao@unibo.it

ABSTRACT

The present study aims to validate the river discharge (RD) within the Adriatic Sea basin extracted from the European Flood Awareness System (EFAS) to estimate five climate indicators into the 1991-2020 period foreseen in the AdriaCLIM project: RD-1 River Discharge, RD-2 Mean River Flow, RD-3 Minimum River Flow, RD-4 Standardized Flow Index (SFI), and RD-5 Maximum River Discharge.

The RD data were extracted, processed, and validated (Figure 1) at several river-mouth positions to validate the WRF Hydro simulations, used as input on NEMO climatic simulation. All rivers flowing to the Adriatic with climatological average of Daily RD higher than 1 m³s⁻¹ were considered and gathered by their respective Adriatic Sea section and Pilot Area (Figure 2). The summary of the 85 rivers was based on AdriaCLIM D3.2.1 and the AdriaCLIM WRF/Hydro NEMO simulation benchmarks. The EFAS gridpoint selection regarding the river mouth's actual position follows two criteria: nearest neighbour and, when possible, the highest correlation with the available monitoring data.

The unavailability of observed data limited the RD validation to 76% of the considered rivers. For the same reason, it was not possible to use a uniform validation period, as well as the distance from the monitoring station to the river mouth. The results confirm the Shallow Northern Adriatic as the primary holder of RD with a daily average that exceeds 2 500 m³s⁻¹ and accounts for 62% of the entire river water input in the Adriatic (Figure 3). The annual cycle of RD presents a well-defined pattern, with the dry season in the spring and summer months (peak in August) and the wet season during autumn and winter (peaks in November and December). According to the RD-4 (SFI-12, Figure 4), the last climatological cycle was drier than usual (54%). However, about 20% were classified as moderate to extremely wet, against 15% between moderate to extremely dry, indicating that drought periods have been more extended while wet periods have been more intense.



Figure 2. Distribution of the 85 river mouths strictly considered at AdriaCLIM within the 4 sub-sections of the Adriatic Sea. The main river (Pi) is represented by 11 branches between the Pi di Volturno and Pi di Luvato rivers.



Figure 1. Monthly averaged river discharge distribution of Adige River river mouth by EFAS during 2018 (bold pink line) as a reference, the average (dotted blue line), the median (solid line) and the percentiles 2, 10, 50, and 98 (shaded areas) based on the climatological period 1991-2020 are also presented. The top right panel shows the annual mean of these statistical parameters for both periods (climatological in blue and 2016 in pink). Additionally, observational data (dotted line) collected at Verona Station (130 km upstream) are presented for the 2004-2018 period and 2018 (dotted line).



Figure 3. Same of Figure 1, but for the Adriatic Sea sections.

AdriaClim Observations in ERM Pilot Area: Benthic nutrients

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Objective

To study the spatial distribution of sediment organic carbon (OC), total nitrogen (TN), and total phosphorous (TP) in Emilia-Romagna pilot area.

Materials and Methods

We collected surface sediments at four transects located at increasing distance from the coast and from the Po River in December 2020. Elemental composition (OC and TN) was determined using EA, and phosphorous was measured spectrophotometrically at 880 nm after extraction with 1M HCl [1].



Figure 2 Water and sediment samples collection



Figure 1 Sampling map of Emilia Romagna Pilot Area

Results

- Sediment OC and TN increased at increasing distance from the coast, varying from 0.43 ± 0.42 % to 0.02 ± 0.01 % and 1.04 ± 0.35 % to 0.10 ± 0.01 %, respectively, at 0.5 km and 10 km offshore;
- Spatial distribution of TP displayed a somewhat north-south decreasing pattern with higher TP values measured at Po di Volano transect (762 ± 205 mg kg⁻¹) and lower values at Cesenatico (631 ± 67 mg kg⁻¹). Inorganic phosphorous (IP) contributed to 61 ± 19 % to the total sedimentary TP;
- Water column Chl_a fluorescence also displayed a north-south pattern with near-surface values decreasing from the Po River prodelta to Cesenatico;
- The shape of the chlorophyll-*a* profiles varied in terms of the depth and the magnitude of the maximum chlorophyll concentration ranging from 2.8 to 5.3 µg l⁻¹ at 10 km offshore.

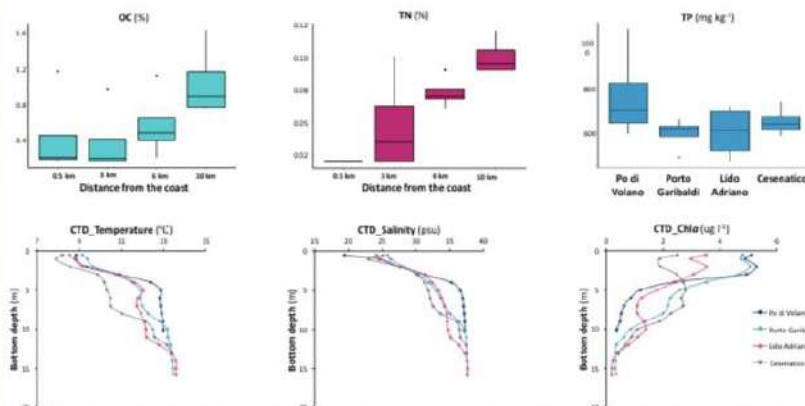


Figure 3 Sedimentary OC, TN and TP content; and vertical profiles of Temperature, Salinity and Chl_a in the water column at 10 km offshore station at each transect in ERM Pilot Area

Goals

The observed data contribute to AdriaClim activity 3.1 'Design and implementation of the observing system updates' in ERM Pilot area, with a focus on spatial and temporal variability of: a) the biogeochemical components at the water-sediment interface, and b) the chemical-physical and biological water column conditions.

References: [1] Asplund K., Agrenman H., Chou A., 1976. A semi-automated method for the determination of inorganic, organic and total phosphate in sediments. *Analyst* 101, 187-197

ADRIA CLIM MID-TERM INTERNATIONAL CONFERENCE - PROTECT THE COAST, ADAPT TO CLIMATE CHANGE

WR 3.1 • Design and implementation of the observing system updates

7 and 8 June, 2022 - Split, Croatia.

MARINE HEAT WAVES IN THE ADRIATIC SEA: A PROPER DEFINITION OF THE BASELINE PERIOD IN A CHANGING CLIMATE

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Marine heatwaves (MHWs) are anomalous warm seawater events widely recognized for their capacity to disrupt marine ecosystems (Oliver et al., 2021; Jacox et al., 2022). An MHW is defined as a discrete period of prolonged (more than 5 days) anomalously ocean temperatures exceeding a defined threshold, in a particular ocean region. **Anthropogenic climate change** has strong impact on the long-term trends of the MHW characteristics (frequency, intensity, and duration). These increases are expected to continue under projected future emissions scenarios, and it is possible that much of the global ocean will reach a **permanent MHW state** by the late twenty-first century (Oliver et al., 2021). Due to significant ocean warming, one of the important questions that arises for MHW analysis is the definition of an appropriate baseline period to calculate a **local, daily based and upper-percentile climatology** of Sea surface Temperature SST (Hobday et al., 2016) as the threshold above which MHWs are detected. The **baseline period** choice affects the long-term trend in mean SST, and hence the MHWs detection and characteristics. The choice of using a fixed or a moving baseline would be guided by specific research questions of interest.

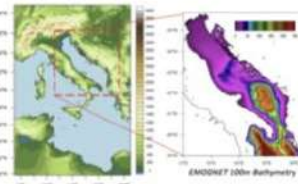


Figure 1 - Adriatic Sea region from the AdriaClim model used for MHW climatological baseline analysis.

This work studies the effect of a fixed versus moving baseline period on the characterization of MHWs in the Adriatic Sea region (Figure 1), based on the results of a **regional climate model** (CMCC MedCordex - Ruti et al., 2016 - from 1991 to 2006 on historical mode and from 2007 to 2080 on RCP8.5 projection mode - Figure 2). For this, two different approaches to calculate the SST anomaly (Figure 3) and the 90th percentile SST climatology (Figure 4) time series: one using a fixed 30-year baseline period (1991 to 2020) and one using a moving 31-year baseline centered on the year analyzed (p.e. to analyze the year 1991, the time window used will be from 1976 to 2006 - the as suggested by Oliver et al., 2021). We then used the exceedances above the resulting thresholds (Figure 4) to determine MHWs following the Hobday et al. (2016) method.

Overall we aim at critically reviewing our current **understanding of MHWs from a climatological perspective** and looking at the physical climate characteristics (long-term warming, climate variability changes), the ecosystem slow/fast adaptation capacities and the societal needs.

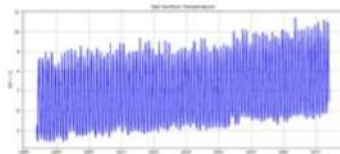


Figure 2 - SST time variation for the Adriatic Sea region.

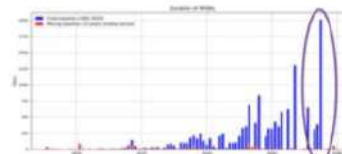


Figure 3 - MHW events duration.

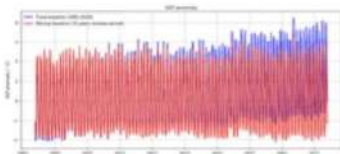


Figure 3 - SST anomaly time variation.

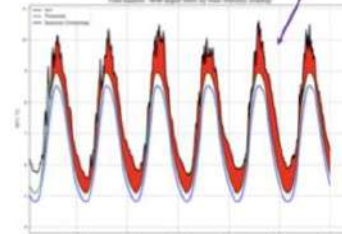


Figure 4 - Last MHW event using fixed baseline - permanent state.

A fixed-baseline period leads to a saturation of SST above the threshold, which in turn leads to long-term MHW (the **permanent MHW state**) from 2075, while a moving-baseline period leads to more stationary MHW properties over time (Figure 5 and 6).

Both methods of calculating baseline climatologies are important and depend on the use of such MHWs indicator. For the policy makers, MHWs indicator using a fixed baseline might be more interesting as it highlights the warming impact on the local ecosystem, since most interest in MHWs is motivated by ecological and socio-economics impacts. In terms of a research which, for example, intend to compare climatological models, the use of the moving baseline is more interesting and reasonable, as this emphasizes variability to the detriment of long-term warming. The use of both definitions of the baseline period with an hybrid or a parallel approach could allow to answer different questions on physical climate variability and/or long-term warming effects. This approach will be proposed with the results of the **AdriaClim sub-regional climate model** reaching 5 times higher resolution than CMCC MedCordex RCM here shown, thus more suitable to assess the CC impacts at local scales.

Watercare

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(1.1.2019 – 31.12.2021)

INTRODUCTION

The monitoring of bathing waters is necessary to protect human health and to help protect and improve the quality of the marine environment. The quality of bathing waters of Italy and Croatia are mostly excellent although a lower quality can be detected in scarce areas. Abnormal rain showers caused by climate change could lead to the overflowing of the smaller streams and urban sewage systems thus potentially causing the microbial pollution of the bathing waters which can have a negative effect on tourism and related activities.

MATERIALS AND METHODS

The study was conducted from June to October 2020 and from April to October 2021 at 11 coastal locations in the central Adriatic. A total of 51 sampling campaigns were conducted every two weeks during the bathing season. In case of a rain event (>2 mm of precipitation), sampling was carried out immediately the next morning, as well as 24 and 72 hours after the first sampling, to determine the possible influence of precipitation on the changes in the concentration of indicators of microbiological pollution. Concentrations of *Escherichia coli* and intestinal enterococci were determined in a total of 605 samples along with abiotic parameters such as temperature, salinity and pH, and meteorological conditions.



Figure 1. Study area with meteorological stations (MS1 and MS2) and sampling stations

The quality of bathing waters in the Kaštela area was significantly lower than in the Split area, which is due to the condition of the sewage system in these areas and not to the precipitation effect.

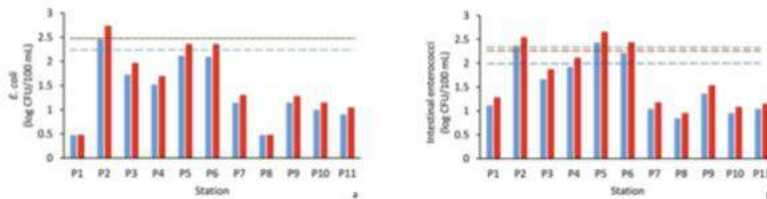


Figure 2. Bathing water quality categories based on 90th (blue columns) and 95th (red columns) per-centile of all *E. coli* (a) and intestinal enterococci (b) values for both bathing seasons. Dashed lines present water quality thresholds (blue-excellent, green-good, red-sufficient).

RESULTS

The impact of precipitation on the quality of coastal bathing waters was not detected in the Split or Kaštela region, probably due to the low amount of precipitation during the bathing season.

Table 1. Spearman's correlation coefficients between the examined variables for both bathing seasons. Statistically significant correlations ($p < 0.05$) are in red.

Parameter	<i>E. coli</i>	Intestinal enterococci	Precipitation
T_{air}	-0.074408	-0.097515	-0.116098
T_{water}	0.012499	0.035217	0.010085
Salinity	-0.269078	-0.226446	-0.035646
pH	-0.012774	0.080992	0.141659
<i>E. coli</i>	1.000000	0.688259	0.070780
Intestinal enterococci	0.688259	1.000000	0.055395
Precipitation	0.070780	0.055395	1.000000

Table 2. Spearman correlation coefficients between the examined variables for both bathing seasons for Split area. Statistically significant correlations ($p < 0.05$) are in red.

Parameter	<i>E. coli</i>	Intestinal enterococci	Precipitation
T_{air}	0.021580	-0.046341	-0.105498
T_{water}	0.134070	0.113334	0.035564
Salinity	-0.099866	-0.024540	-0.015196
pH	-0.256724	-0.084286	0.143502
<i>E. coli</i>	1.000000	0.569315	0.111749
Intestinal enterococci	0.569315	1.000000	0.143276
Precipitation	0.111749	0.143276	1.000000

Bathing water quality differed depending on the indicator bacteria used for assessment. Moreover, an increased number of samples at a specific site showed that bathing water quality depends on both the time of sampling and the indicator used to assess it. *E. coli* was found to be a better indicator for early morning sampling, whereas intestinal enterococci were more suitable for late morning sampling.



Figure 3. Water samples with different quality (blue-excellent, green-good, yellow-sufficient, red-poor) when assessed with only one indicator bacteria, *E. coli* and intestinal enterococci (IE) separately. The numbers indicate the number of samples.

CONCLUSIONS

1. The influence of precipitation on the quality of coastal bathing waters was not detected in the Split or Kaštela region
2. The quality of bathing waters in the Kaštela area was significantly lower than in the Split area
3. Bathing water quality depends on the time of sampling and the microbial indicator used to assess it
4. Better design of the frequency and number of samples on sites with lower bathing water quality

Project partners



AdriaClim conference - Protect the coast, adapt to climate change! Split, Croatia (June 7-8, 2021)

Development of a High-Resolution Biogeochemical Model For the Adriatic Sea

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² Centro Euro-Mediterraneo per i Cambiamenti Climatici (CMCC), Bologna, Italy.

³ University of Cape Town, South Africa.

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ABSTRACT

The Adriatic Sea hosts a variety of ecosystems, characterized by different dynamics and problems. Its shallow north-western portion is dominated by the rivers of the Po Valley, which carry large nutrient loads towards the sea, resulting in a prevalently eutrophic environment. Conversely, the eastern coasts are defined by upwelling and scarcity, which come with prevailing oligotrophic conditions. Finally, the southern portion is characterized by deep-water and by a slow upwelling at the cyclonic gyre (e.g. Pinardi et al., 2006). In this context, a major challenge is the elaboration of an optimal model setup, able to properly reproduce the diverse ecosystems of the Adriatic Sea.

As part of the activity 3.2 of the project AdriaClim, here we developed an offline 3D coupled transport-biogeochemical model on a mesh covering the whole Adriatic Basin with a horizontal resolution of 2 km and 120 vertical levels. For the purpose we employed the circulation model NEMO coupled with the biogeochemical model BFM. The CMEMS reanalysis, along with climatological data from Butenschön et al. (2021), were used to provide initial conditions and the southern open boundary condition for Oxygen O₂, Phosphate PO₄, Nitrate NO₃, Silicate SiO₄, Dissolved Inorganic Carbon (DIC) and Total Alkalinity (TA). Ludwig et al. (2009) was used to estimate the nutrient loads carried by the rivers towards the sea.

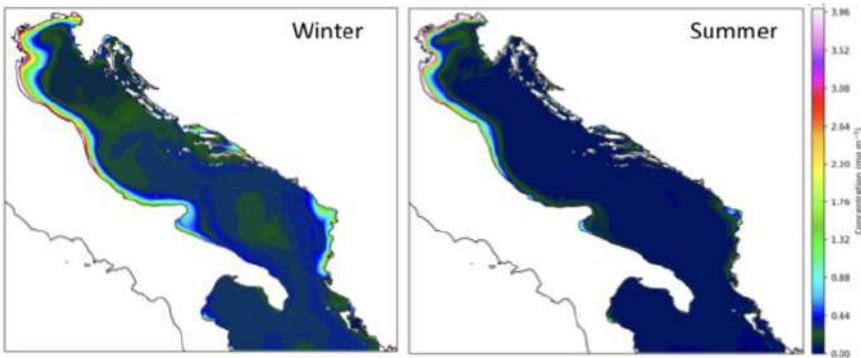
The results show that the model is able to successfully capture the major features of the Adriatic biogeochemistry, such as a seasonal cycle with winters more productive than summers, growth mostly limited by PO₄, tendential eutrophic condition in the North-Western portion of the basin and oligotrophic elsewhere.

References:

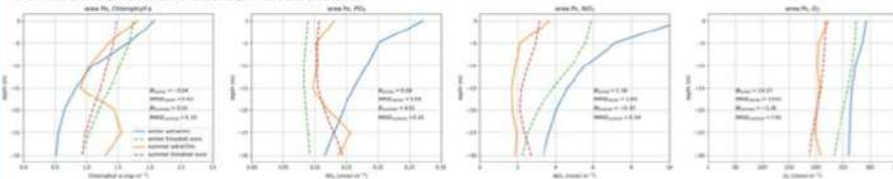
Butenschön M et al. (2021). Alkalinization Scenarios in the Mediterranean Sea for Efficient Removal of Atmospheric CO₂ and the Mitigation of Ocean Acidification. *Frontiers in Climate*, 3, 14.

Ludwig W et al. (2009). River discharges of water and nutrients to the Mediterranean and Black Sea: major drivers for ecosystem changes during past and future decades?. *Progress in oceanography*, 80(3-4), 199-217.

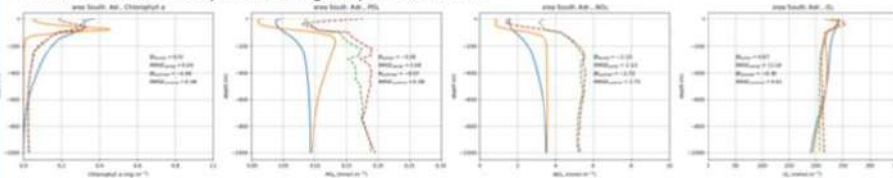
Pinardi N. et al. (2006). The physical, sedimentary and ecological structures and variability of shelf areas in the Mediterranean sea (27). *The sea*, 14, 1243-330.



Po mouth: prevalent eutrophic conditions



Southern Adriatic Sea: prevalent oligotrophic conditions



Peace

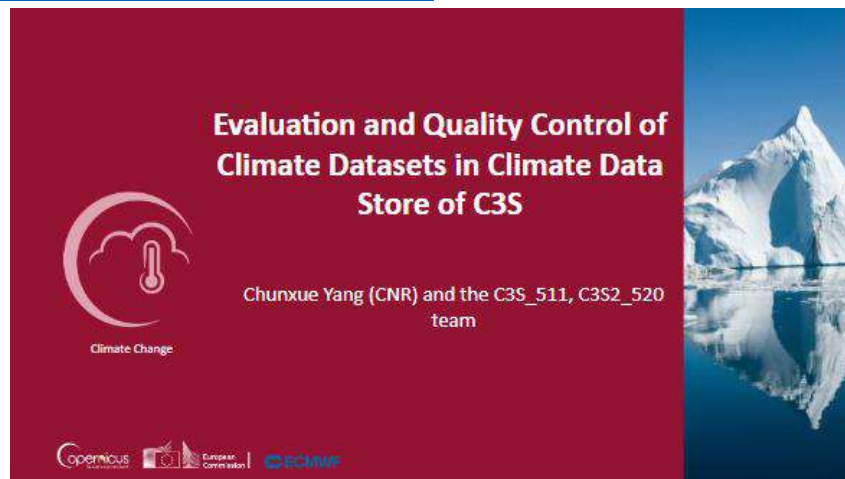
ADRIACLIM MID-TERM INTERNATIONAL CONFERENCE - PROTECT THE COAST, ADAPT TO CLIMATE CHANGE
WP3.2
7 and 8 June, 2022 - Split, Croatia

Presentations

- Veljko Srzić - <https://drive.google.com/file/d/1jsElhmf6pQB2AvK4RTeW2zY-A5dxWsg/view>



- Chunxue Yang - https://docs.google.com/presentation/d/1rB_C0ePool-JNQStX9sQhUgJ5RCAlI9A/edit#slide=id.p1



- Angel Borja - https://drive.google.com/drive/folders/1GRW_1PpqbhHCNN8wbKT40hVKwTLRKN0N



www.azti.es

Ocean health and human health: links and research agenda

Ángel Borja and Sarai Pouso

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- Carlo Cacciamani - https://drive.google.com/drive/folders/1GRW_1PpqbhHCNN8wbKT40hVKwTLRKN0N






“What Italy is doing to protect its coasts/territory from CC?”

Carlo Cacciamani
 Director of the National Agency for Meteorology and Climatology, “ItaliaMeteo”

European Regional Development Fund

- Chiara Tringali - <https://docs.google.com/presentation/d/1JGR-8S4bL5LfwWJDUA0Q9kM7PbomdvEe/edit#slide=id.p1>



The Climate Menu for Adriatic Regions: a tool for supporting local climate planning against the effects of climate change

Chiara Tringali
APE FVG – Energy Management Agency of Friuli Venezia
Giulia

European Regional Development Fund

- Davide Bonaldo -
<https://docs.google.com/presentation/d/17zwLodJMPL1sK4VeM1mlqfcnjXA2ywck/edit#slide=id.p1>



Sharing knowledge and planning approaches to tackle climate change: The heritage of CHANGE WE CARE

Davide Bonaldo
CNR-ISMAR

European Regional Development Fund

- Giacomo Mangabosco -
https://docs.google.com/presentation/d/1H8KtH_ekj3U2PmpelvddNqKbmWfM4nyY/edit#slide=id.p1



Urbanproof toolkit: a tool to support local governments to plan for climate change adaptation at the local scale.

Giacomo Magnabosco

Università Iuav di Venezia

European Regional Development Fund

- Giovanni Vicentini -

https://drive.google.com/drive/folders/1GRW_1PpqbhHCNN8wbKT40hVKwTLRKN0N



Results and lessons learnt from the LIFE project Veneto ADAPT

Mr. Giovanni Vicentini

Municipality of Padova

European Regional Development Fund

- Gusmaroli Giancarlo - <https://docs.google.com/presentation/d/1ErzvINYk6tgG-6qCKD3AnQILd4pbuNEd/edit#slide=id.p1>



Climate change impacts on place-based governance models

Giancarlo Gusmaroli
Advisor of the City of Venice
for Adriaclim project

European Regional Development Fund

- Ilija Drmač - <https://docs.google.com/presentation/d/1T8TmBHFF18YJz9KNaYUFYW8V2ctMP2MZ/edit#slide=id.p1>



“SECAP, content and development process”

Ilija Drmač
El Hroje Požar

European Regional Development Fund

- Ivan Sekovski - [https://docs.google.com/presentation/d/1IdZdLS-
jpIKMb7GhQVsGZV1okqBXITCw/edit#slide=id.p1](https://docs.google.com/presentation/d/1IdZdLS-
jpIKMb7GhQVsGZV1okqBXITCw/edit#slide=id.p1)



AdriAdapt - a resilience knowledge platform for the Adriatic

Ivan Sekovski
UNEP MAP PAP/RAC

European Regional Development Fund 

- Lidija Srnec - <https://docs.google.com/presentation/d/12hUAia8Z1yV9D7OEk2jIM7kAp2DiPdown/edit#slide=id.p1>



Climate change projections for the Adriatic as a support for impact assessment

Lidija Srnec
Croatian Meteorological and Hydrological Service

European Regional Development Fund

- Marin Miletić -

<https://docs.google.com/presentation/d/1sVKEL6GyeUQlg4JwVrX5Li5y7gai7SO/edit#slide=id.p1>

INTERREG Italy-Croatia CBC Programme

AdriaClim Mid-term Conference

Interreg V-A Italy-Croatia Joint Secretariat

Marin Miletić, Project Manager
Evaluation and Monitoring Unit

- Piero Lionello -

https://drive.google.com/drive/folders/1GRW_1PpqbhHCNN8wbKT40hVKwTLRKN0N



The Mediterranean / Adriatic sea:
what should we expect for
the next 20-50 years? The new IPCC WGII report

Piero Lionello

University of Salento

- Stefanija Šestanović -

<https://docs.google.com/presentation/d/1mle5pvpeMwo1ZWdqMQkYkrAOui8I1mO/edit#slide=id.p1>



Small players, large roles: warming effects on marine microbial processes

Stefanija Šestanović

Institute of oceanography and fisheries SPLIT

European Regional Development Fund

- Stefano Menegon -

<https://docs.google.com/presentation/d/1Im3kMR3JJCi7rHoMbDLWbM4geAlzqTcA/edit#slide=id.p1>



Addressing the contribute of Climate Change drivers on environmental Cumulative Impacts to support effective Marine Spatial Planning

Stefano Menegon
CNR-ISMAR

Elena Gissi
CNR-ISMAR
& Stanford University

European Regional Development Fund



Photos









Promo video

https://www.youtube.com/watch?v=uj6_h9FWbc

Conference promo video

Press

Media promotion

Jutarnji list, 03. 06. 2022. - <https://www.jutarnji.hr/planet/konferencija-zastitimo-obalu-prilagodimo-se-klimatskim-promjenama-prilika-je-za-razmjenu-znanja-15205968>



- Dalmatinski portal, 02. 06.2022. - <https://dalmatinskiportal.hr/vijesti/adriaclim--u-lipnju-u-splitu-medunarodna-konferencija--zastitimo-obalu--prilagodimo-se-klimatskim-promjenama-135362>



- Dalmatinski portal, 03. 06. 2022. - <https://dalmatinskiportal.hr/energija-i-ekologija/angel-borja--odgovori-su-preslabi-za-izazove-klimatskih-promjena-s-kojima-se-suocavamo/135434>



dalmatinski portal

Ghetaldus Besplatna kontrola dio projekata

ANGEL BORJA
AZTI

Angel Borja: Odgovori su preslabi za izazove klimatskih promjena s kojima se suočavamo

03. Prosinj.

'Moramo promijeniti većina naših navika, posebice u pogledu potrošnje energije'

Angel Borja, dr. sci. ekologije mora, glavni istraživač na AZTI (manufakturno-tehnološko središte koje razvija projekte transformacije visokog učinka s organizacijama usklađenim s ciljevima održivog razvoja Ujedinjenih naroda 2030.) i zvanjeni pomoćni profesor na Sveučilištu Kralj Abdulaziz u Saudijskoj Arabiji

- Dalmatinski portal, 06. 06. 2022. - <https://dalmatinskiportal.hr/energija-i-ekologija/intervju-drmac--hrvatska-je-danas-ovisna-o-fosilnim-gorivima--ali-uz-dobre-projekte-i-upravljanje--u-buducnosti-nece-imati-velikih-problema-u-opskrbi-energijom/135713>



dalmatinski portal

IZBJEGNI GUŽVU, VOZI BICIKLU!

DRMAČ ILJA
E.IHP

INTERVJU Drmač: Hrvatska je danas ovisna o fosilnim gorivima, ali uz dobre projekte i upravljanje, u budućnosti neće imati velikih problema u opskrbi energijom

06. Prosinj.

'Svaka priprema počinje sa strateškim planom na državnoj razini, a realizacija definiranih mjera kroz planove na lokalnoj razini'

'Zaštitimo obalu, prilagodimo se klima tiskim promjenama' naziv je međunarodne konferencije koja se održava u sklopu prirogramnog projekta AdriaClim u hotelu Park u Splitu s. 18. lipnja ovog. godine, u organizaciji Javne ustanove ZERA, Uoči

- Dalmatinski portal, 07. 06. 2022. - <https://dalmatinskiportal.hr/vijesti/foto-adriaclim--vodeci-medunarodni-strucnjaci-za-klimatske-promjene-okupili-su-se-u-hotelu-park/135819>



- Dalmatinski portal, 10. 06. 2022. - <https://dalmatinskiportal.hr/energija-i-ekologija/poruke-s-adriaclim-konferencije-zastitimo-obalu--prilagodimo-se-klimatskim-promjenama-/136114>



- Dalmacija danas, 03. 06. 2022. - <https://www.dalmacijadanas.hr/porast-temperature-zraka-uzrokovat-ce-ekstremne-vremenske-uvjete-i-nepoznanica-je-sto-ce-se-dogadati-nakon-sto-dosegnemo-kriticnu-tocku/>



- Dalmacija danas, 02. 06. 2022. - <https://www.dalmacijadanas.hr/adriacim-u-lipnju-u-splitu-medunarodna-konferencija-zastitimo-obalu-prilagodimo-se-klimatskim-promjenama/>



- Dalmacija danas, 06.06. 2022. - <https://www.dalmacijadanas.hr/medunarodna-konferencija-zastitimo-obalu-prilagodimo-se-klimatskim-promjenama-sutra-pocinje-s-radom-u-splitu-jos-ima-vremena-za-prijave-2/>



- Dalmacija danas, 07. 06. 2022. - <https://www.dalmacijadanas.hr/u-splitu-se-odrzava-medunarodna-konferencija-zastitimo-obalu-prilagodimo-se-klimatskim-promjenama/>



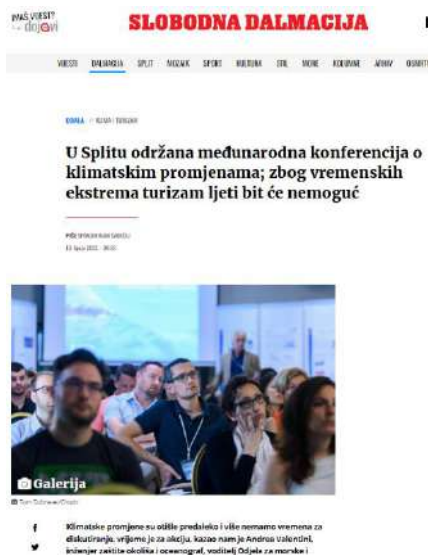
- Dalmacija danas, 09-06. 2022. - <https://www.dalmacijadanas.hr/adriaclim-nema-vise-vremena-svi-moramo-djelovati-odmah-i-sada-da-sprijecimo-negativne-posljedice-klimatskih-promjena-kojima-se-suocavamo-i-koje-nas-ocekiju-u-buducnosti/>



- Slobodna Dalmacija, 28. 05. 2022. - <https://slobodnadalmacija.hr/eu-projekti-u-dalmaciji/sacuvaj-obalu-prilagodi-se-klimatskim-promjenama-1196429>



- Slobodna Dalmacija, 10. 06. 2022. - <https://slobodnadalmacija.hr/dalmacija/obala/u-splitu-odrzana-medunarodna-konferencija-o-klimatskim-promjenama-zbog-vremenskih-ekstrematurizam-ljeti-bit-ce-nemoguc-1199645>



- N1 TV, 06. 06. 2022.



- Slobodna Dalmacija, 10. 06. 2022.

Slobodna Dalmacija
PETAK, 10. 6. 2022.

sd specijal 11

KONFERENCIJA 'ZAŠTITIMO OBALI, PRILAGODIMO SE KLIMATSKIM PROMJENAMA!'

PROMO



Daivide Bonaldi

Andrea Vitlov Kurtin

Turizam ljeti bit će nemoguć

➔ Lidija Srnec iz DHMZ-a upozorila je na promjene koje će se dogoditi u turizmu: Glavni utjecaj klimatskih promjena na turizam očituje se u porastu temperature zraka. Znači ono što smo sad već vidjeli jest da će naša tipična sezona u srpnju i kolovozu biti pretopla. Taj turizam ljeti neće biti održiv. I tu bi se sad već trebali prilagoditi predsezonski i posezonski jer naša obala to može

Klimatske promjene su oštre predložile više osušeno vremena za diskusije, vrijeme je za akciju, kazao nam je Andrea Valentini, inženjer zaštite obala i oceanograf, voditelj Odjela za morsku i obalnu numeričku prognozu u Hidrometeorološkom i klimatološkom zavodu (DHMZ) u Splitu. "Zaštita i prilagodba se klimatskim promjenama"

Konferencija "Zaštita obala, prilagodba se klimatskim promjenama" u organizaciji dalmatinske ustanove RZDA S.D. na koordinaciju razvoj SDZ, kao jedne od partnerne projekta, održala se u hotelu AdriaClim projekta financiranog programom Interreg Italija-Hrvatska, a koji okupio devetnaest partnera iz Italije i Hrvatske koji se bave proučavanjem rješenja za posljedice klimatskih promjena na obalnu područja Jadranskog mora. Glavni ciljevi konferencije bili su podizanje svijesti o utjecaju klimatskih promjena i omogućavanje stratežijama sa sveučilišta, istraživačkim centarima i ostalim za obalu da kreiraju politiku i strategije javnosti da ju informiraju i potaknu da se osloni na vrijeme i utjecaju klimatske promjene na Jadranskom moru. Kreće čak deset poster sesija na konferenciji su predstavljeni projekti i provedene prakse vezane za pitanja kako se možemo bolje prilagoditi klimati-

čkim promjenama kako bismo se nosili s trenutnim izazovima. U poster sesijama sudionici su istaknuli rezultate aktualnih projekata koji se bave važnima konferencije: znanost o klimi, znanost o okolišu ili znanost o ženi.

Zaštita Jadranskog mora

Sudionici konferencije izrazili su zadovoljstvo zbog kvalitete i raznog znanja i iskustava. Andrea Valentini je naglasio da je to vrlo važno ne samo za prijetu AdriaClim, nego i za saradnju između Hrvatske i Italije jer kako bi zajednička snaga sastila Jadransko more. Među predavačima su bili renomirani znanstvenici u području klimatskih promjena i ekologije mora poput Angela Basso, glavnog istraživača na AZTT (Spartoloka) i pomoćnog profesora na Sveučilištu Kralj Abdulaziz u Saudijskoj Arabiji, Lidije Srnec, voditeljice Odjela za klimatsko modeliranje, praćenje klimatskih promjena i klimatologija u DHMZ-u, Piera Lanvella, Sveučilišta u Salantu; Giovanna Coppinija, Zaslada Euro-mediterranski centar za klimatske promjene (CMCC); Giuseppa Grassano, glavnog istraživača u obalnoj riziku - Zaslada MedSea; Valda Svarka o Fakulteta građevinarstva, arhitekture i geodezije iz Splita; Carla Caerriamannija, direktora Nacionalne agencije za meteorologiju i klimatologiju (Italia/Meteo



Chiara Tringali

agenciji); Sande Skejčić iz Instituta za oceanografiju i ristarstvo Split; Chunxue Yang, oceanografkinje iz Instituta za morske znanosti Nacionalnog istraživačkog vijeća Italije (CNR-ISMAR); Core Hörtmann, Mediteranski institut za oceanografiju i Marselle; Giuseppa Magagnoli, Odjel za arhitekturnu inženjering - IIRAV; Stefania Monopoli, Institut za morske znanosti Nacionalnog istraživačkog vijeća Italije (CNR-ISMAR); Stefanie Sostanov's Institut za oceanografiju i ristarstvo Split; Andrea Vitlov Kurtin, Agencija za razvoj Zadravske napuštenih devinarstva, arhitekture i geodezije iz Zadra; Davide Bonaldi, znanstvenog istraživača na Institutu za morske znanosti Nacionalnog istraživačkog vijeća Italije (CNR-ISMAR);

Chiara Tringali, Energetika agencija regije Friuli Venezia Giulia; Giovanna Vincenzini iz gradske uprave Padova; Kristiana Horvath, voditeljica meteoroloških istraživanja i razvoja u Državnom hidro-meteorološkom zavodu (DHMZ); Giulia Gallucci, Zaslada Euro-mediterranski centar za klimatske promjene (CMCC); De-mač Ije, višeg znanstvenog istraživača na Energetičkom Institutu Hrvatske Pežar u Zagrebu te Ivana Sekovskog, UNEP/MAPP/PRAC. Sudionici konferencije su u svojim izlaganjima poručili ono što svi znamo, ali mislimo da ima vremena, da će se dogoditi drastične klimatske promjene koje će isto tako drastično utjecati na živote svih ljudi, od podizanja morske razine krane.

Pretoplo ljeto

Lidija Srnec iz DHMZ-a. Odjela za klimatologiju, upozorila je na promjene koje će se dogoditi u turizmu, nema toliko važnog gospodarskog gran.

Glavni utjecaj klimatskih promjena na turizam očituje se u porastu temperature zraka. Znači ono što smo sad već vidjeli jest da će naša tipična sezona u srpnju i kolovozu biti pretopla. Taj turizam ljeti neće biti održiv. I tu bi se sad već trebali prilagoditi predsezonski i posezonski jer naša obala to može.

No, to nije jednostavno. Ali svatko od nas već sad može nešto malo učiniti na ublažavanju stakleničkih plinova jer su oni glavni uzrok svemira što se događa i o čemu smo pričali na konferenciji. Moderno automobili, klimatizacije, hladni kokice i drugi uređaji koji čine se podržavaju, kazala je Srnec.

Kristijan Horvath, načelnik sektora za meteorologiju i istraživanja u razvoj u DHMZ-u, potvrdio je održavanje ovakve konferencije te

maglosto da vrijeme klima ne-moja grane, naša je suradnja i snaga meteorološki onih koji meteorološke informacije upotrebljavaju za procjenu rizika, izradu glavnih prilagodbe klimatskim promjenama. - Činjenica je da su najveći sudionici ugljikovih dioksida u atmosferi voljke firme, ovakva situacija nije rezultat svakodnevne živote običnih ljudi, međutim bez političke podrške ne može se ništa. Ono što nam pokazuje u vremenski i klimatski ekstremni danovi jest da je Hrvatska jedina od zemalja koja je naličbeno Srednjoj klimatskih promjena. Ali se fokusiramo na promjene koje će se manifestirati za 30, 50 ili 100 godina naših čimbenika imamo vremena... ma, diete i problemi koji imamo već danas, problemi s kojima se susreću u poljoprivredi, energetici, vodnom gospodarstvu... zasto zabijaju da dijetno sada i da ne odgođamo odluke o prilagodbi klimatskim promjenama, rekao nam je na kraju Horvath. ➔



Andrea Valentini

- Slobodna Dalmacija, 30. 05. 2022.

THE COAST, ADAPT TO CLIMATE CHANGE!
Mid-Term International Conference

7 & 8 JUNE 2022
Spilitt, Hotel Park

Glavni ciljevi konferencije su podići svijest o utjecaju klimatskih promjena na jadransku obalu te omogućiti stručnjacima sa sveučilišta, istraživačkih i edukacijskih centara da kreatorima politika i široj javnosti daju aktualne informacije s dodatnom vrijednošću o utjecaju klimatskih promjena na jadransko more



PREKOGRANIČNI PROJEKT ADRIACLI

**ZAŠTITIMO
OBALU,
PRILAGODIMO
SE KLIMATSKIM
PROMJENAMA**

PROTECT



LIDIJA SRNEC, HRVATSKI DRŽAVNI METEOROLOŠKI ZAVOD

KAD SE TEMPERATURA ZRAKA POVEĆA PREVIŠE, NEĆE BITI LAKO ZAUSTAVITI PROCESE

Porast temperature zraka utječe na procese u atmosferi, hidrosfiri ciklus, temperaturu mora, ekosustave, ledenjake. Klimatski sustav zbog zagrijavanja ima sve više energije i pitanje je kad će i na koji način doći do promjena

Kad se klimatske promjene, a kojima će se u budućnosti suočiti i Hrvatska, savije zajedništvom i kolektivnom odgovornošću? Kad govore o klimatskim promjenama, teško je izdvojiti jedan njihov segment kao najvažniji, budući da se radi o procesima koji su međusobno povezani na način da promjena jednog parametra utječe na drugi, ali odnosa, u tom interaktivnom procesu je razmnoženica množenosti. Ključne točke su koje ćemo osjetiti najprije, a to će se dogoditi nakon što se snižavanje...



Klimatski sustav zbog zaprijetnje ima sve više energije i pitanje je kad će i na koji način doći do promjena. Simulacije klimatskih modela mogu dati snagu u kojim će posredni čimbenici tog složenog sustava reagirati na određeni dodatni porast temperature zraka, no kad se temperatura zraka poveća previše, navedeni procesi neće biti jednostavno zaustavljeni. Bitno je se zbog toga globalni porast temperature zraka zadržati do 1,5°C, odnosno 2°C u odnosu na...

i najmanji pokušaji smanjenja emisija stakleničkih plinova u konačnici se zbrajaju i isplate.

30. svibnja 2022. | EU PROJEKTI | 13

Hibridna konferencija koja okuplja vodeće međunarodne stručnjake, političare i donositelje odluka u području klimatskih promjena održat će se u Splitu 7. i 8. lipnja ove godine

U sklopu prekograničnog projekta AdriaClim, hibridna međunarodna konferencija "Zaštitimo obalu, prilagodimo se klimatskim promjenama" 7. i 8. lipnja 2022. Konferencija okuplja vodeće međunarodne stručnjake, političare i donositelje odluka u području klimatskih promjena.

Glavni ciljevi konferencije su podići svijest o utjecaju klimatskih promjena na jadransku obalu te omogućiti stručnjacima sa sveučilišta, istraživačkih i edukacijskih centara da kreatorima politika i široj javnosti daju aktualne informacije s dodatnom vrijednošću o utjecaju klimatskih promjena na jadransko more.

Konferencija je organizirana u formatu hibridne konferencije i održat će se na obali. Pranje i promjene klimatskih promjena uistinu, energije i zaštita kopne teritorija od klimatskih promjena istaknuta bit će, drugi dio. Fokus konferencije bit će na...

Praktične primjene i modeliranje. Preko-granični program AdriaClim je akronim istraživačkog projekta financiranog od strane talijansko-hrvatskog Interreg programa suradnje. Projekt je posvećen podizanju svijesti o utjecaju klimatskih promjena na jadransku obalu te omogućiti stručnjacima sa sveučilišta, istraživačkih i edukacijskih centara da kreatorima politika i široj javnosti daju aktualne informacije s dodatnom vrijednošću o utjecaju klimatskih promjena na jadransko more.

AdriaClim je akronim istraživačkog projekta financiranog od strane talijansko-hrvatskog Interreg programa suradnje. Projekt je posvećen podizanju svijesti o utjecaju klimatskih promjena na jadransku obalu te omogućiti stručnjacima sa sveučilišta, istraživačkih i edukacijskih centara da kreatorima politika i široj javnosti daju aktualne informacije s dodatnom vrijednošću o utjecaju klimatskih promjena na jadransko more.

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predvidjivost rasta.

Jedna od zabrinjavajućih klimatskih promjena u vjetrovima je smanjenje brzine vjetrova, pogotovo u blizini obala i otoka i u područjima koja su izložena eroziji. U istraživanjima koje se provode, važno je znati koliko će se vjetrovi smanjiti i gdje će to biti najviše izraženo.

- Naši kompetentni i stručni odgovori na ovo pitanje trebali bi se osloniti temeljno na znanosti, a ne na političkim interesima. Također se oslanjamo na znanost i radnike na kojima se temelji naša politika na razini EU-a. U istraživanjima koje se provode, važno je znati koliko će se vjetrovi smanjiti i gdje će to biti najviše izraženo. Specifično se da smo bili u Meksiku 2014. godine imali jednu od radionica koje je organizirala tvrtka M&P, gdje smo imali zajednički stručni sastanak rezultate istraživanja klimatskih promjena za južnu Dalmaciju. Na to odgovor na pitanje što se čini konkretno da se u vrijeme posljedice ili ih se barem ublaži. Našim bi se ciljevima trebalo baviti na svim razinama.

Ima li Hrvatska "prijestolnicu vjetrova" za dizajniranje svojih zgrade i različitih građevinskih poduzeća ili možda samo u slučaju da ona u određenoj "oblasti", da treba odrediti zahtjeve?

- Bit će potrebno u ovom području, ali ne mislim da su to samo male i mala poduzeća. Da smo mogli i veći, mogli smo. Naši ljudi ne kažu. Pri tome možda ne možemo biti u potpunosti i naši ljudi, mogu dovesti do

Projekt poput AdriaClim su više nego poželjni primjeri kako se na međunarodnoj razini, odlike su to Hrvatska i Italija, može zajedno raditi na nekom problemu. Naime, klimatske promjene nisu lokalno ograničene i ne mogu se samo jedne zemlje

Globalni porast temperature nastoji se zadržati do 1,5 °C, odnosno 2 °C u odnosu na predindustrijsko razdoblje

promjene, važne je ne odustati. **Podobnih godina sročavamo se u jednom lokalno ograničenom, ali bezimj osjećamo da moru u smislu politike i etike. Kako procjenjuje sudsko tijelo i kako se odnosi na politiku razvoja?**

- Različiti znanstveni istraživanja već dosta dugo pokazuju da nam zbog iznenađenih porasta temperature zaba u budućnosti očekuje sve više ekstremnih vremenskih pojava. Očekuje se da će od njih morati biti još i u njima onda dolazi i veće štete. Također, tako i materijalni. Učinak je zbog toga vrlo važan, izvodi sustav nam upozorava na nemogućnost odbrane.

Kako ocjenjujete ovakve primjere prekogranične suradnje i inovacije u okviru projekta AdriaClim i koje konkretno rezultate očekujete da će on donijeti?

- Projekt poput AdriaClim su više nego poželjni primjeri kako se na međunarodnoj razini, odlike su to Hrvatska i Italija, može zajedno raditi na nekom problemu. Naime, klimatske promjene nisu lokalno ograničene i ne mogu se samo jedne zemlje. Sada imamo jedna koja svoje razmišljanje i osjećanja, jedan koji nas spaja u ista područja i istaknute strane političko znanstveni karakteristično nego na terenskoj strani. Uzavajno je zbog toga kapaciteti prostora u timskim radu i dijeliti znanje i iskustva. Rezultat projekta bi trebali biti: jedna od znanstvenih klimatskih promjena na području obala i otoka i u određenoj oblasti sa suobli s posljedicama koje nas očekuju.

Što biste za kraj poručili Hrvatima i Italijancima, a što očekujete od njih?

- Svega bih poželio da se i nemajući politički interesne razlike i političkih pitanja u konkretno znanstveni i politički, odnosno odluka da razmisle o problemima koji nas očekuju, ali ne odnose samo odluku na temelju političkih interesa.



ANGEL BORJA, ISTRAŽIVAČ

ZDRAVA MORA ZA ZDRAVE LJUDE

U opsežnoj studiji iz Velike Britanije, dokazano je da su ljudi koji žive u blizini obala zdraviji, a posebno je vidljivo u skupini ljudi sa slabijim prihodima, kojima su dostupniji morski resursi. Također, evidentno je i da su zdraviji ljudi koji žive u blizini morskih zaštićenih prostora ili područjima visoke biološke raznolikosti

Ana istraživanja iz Velike Britanije, dokazano je da su ljudi koji žive u blizini obala zdraviji, a posebno je vidljivo u skupini ljudi sa slabijim prihodima, kojima su dostupniji morski resursi. Također, evidentno je i da su zdraviji ljudi koji žive u blizini morskih zaštićenih prostora ili područjima visoke biološke raznolikosti.

Kako biste općenito utjecaj na zdravlje ljudi, što potpuno različite poduzeća?

- Glavni efekti koji su vidljivi su: povećanje temperature, kako na površini vode, tako i u dubljim slojevima. Također, vidljivi su i učinci zagrijavanja valova koji uzrokuju smanjenje i polimerizacije morskih organizama primarna sjetiva. Ili u većim dubinama.

Život primarne temperature vode, može se primjetiti i pad otplojenog kisika zbog porasta temperature. Što rezultira pri-

mišom čitavo morskih organizama. Načelnice, javlja se i problem sa zadržavanjem vode što utječe na vagnost i zdravlje ljudi. **Može li naglasiti naše rezultate u okviru obale istraživanja za uključivanje klimatskih promjena?**

- Osim se čini jednako važna, posebno je važna za ljudi koji žive u blizini obala i otoka i u područjima koja su izložena eroziji. U istraživanjima koje se provode, važno je znati koliko će se vjetrovi smanjiti i gdje će to biti najviše izraženo.

Veliki je rast u pristupu zemlju i znanja u razvoju južne hemisfere

Jeste li primijetili razlike u pristupu između zemalja?

- Ova velika je razlika između zemalja razvijenih i razvijajućih zemalja. U razvijajućim zemljama, posebno je važna za ljudi koji žive u blizini obala i otoka i u područjima koja su izložena eroziji. U istraživanjima koje se provode, važno je znati koliko će se vjetrovi smanjiti i gdje će to biti najviše izraženo.

Veliki je rast u pristupu zemlju i znanja u razvoju južne hemisfere

planove. Kada godamo izobličiti učina, klimatskih promjena (CCPI) za 2022. godinu, Danaska i Švedska imaju najbolje rezultate u ovom području klimatskih promjena. Najveći porast očekuje se na primarnim planovima, posebno za emisije stakleničkih plinova i ostalih čimbenika. Ali, ako promatramo samo planove vezane za obalna područja (Plan za prilagodbu podizanja razine mora), obala iz 2021. Procijenilo se da su najveći porast u razvoju područjima obalna područja: Italija, Britanija, Njemačka, Belgija i Francuska.

U slučaju Jadrana, Slovenija i Hrvatske, posebno je važna za ljudi koji žive u blizini obala i otoka i u područjima koja su izložena eroziji. U istraživanjima koje se provode, važno je znati koliko će se vjetrovi smanjiti i gdje će to biti najviše izraženo.

Glavni tema našeg istraživanja je "Obilježje očuvane i izvanjske zdravlje: poravnice i izvanjske zdravlje"

Odgovori institucija i kreatora politike su presudni i presudni za Umovne koji su pred nama, moramo već reagirati i promijeniti većinu naših navika, posebno u pogledu potrošnje energije

Veliki plan? Može li nam dati više informacija? Kako je rezultat istraživanja pokazao, kakav je odnos očuvane i izvanjske zdravlje?

- Sve je očigledno da zdrav osjećaj ima više dobrih informacija, kao i bolje zdravlje. U opsežnoj studiji u Velikoj Britaniji dokazano je da su ljudi koji žive u blizini obala i otoka i u područjima koja su izložena eroziji. U istraživanjima koje se provode, važno je znati koliko će se vjetrovi smanjiti i gdje će to biti najviše izraženo.

Također, evidentno je i da su zdraviji ljudi koji žive u blizini morskih zaštićenih prostora ili područjima visoke biološke raznolikosti.

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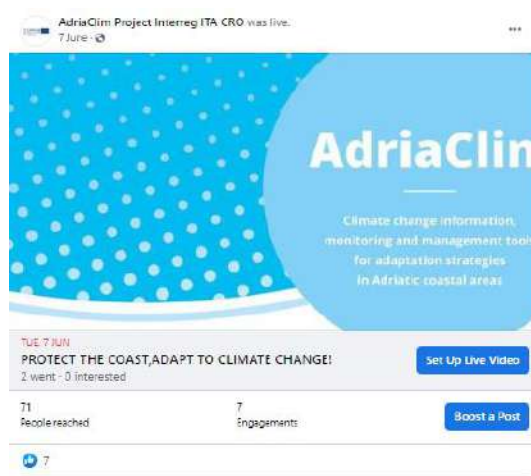
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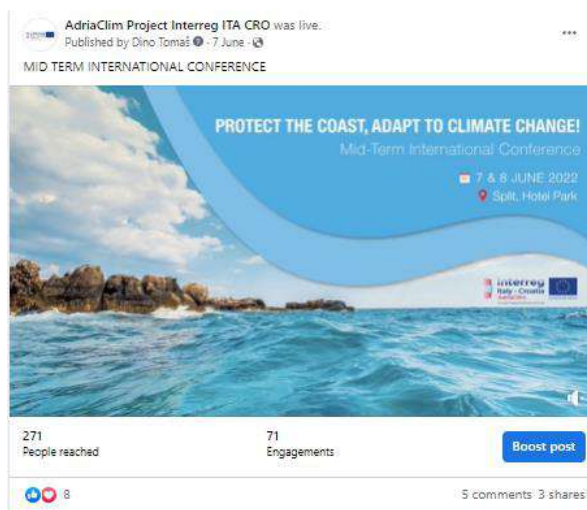
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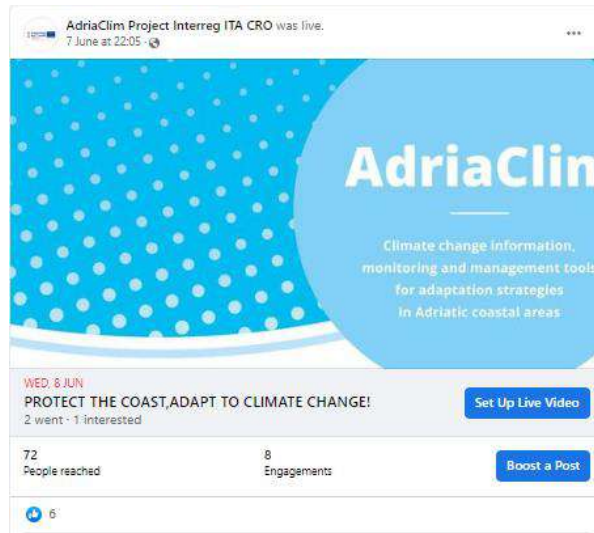


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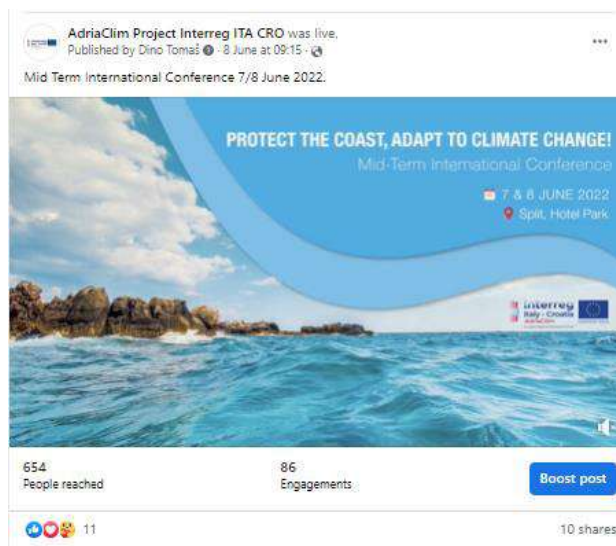
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Published by Maja Vulkan · 28 June at 13:49 · 🌐

On 7th and 8th June in Split was held an international hybrid two-day conference "Protect the coast, adapt to climate change!".
Conference is organized as a part of AdriaClim project activities. We already started to plan next conference, so make sure to stay tuned for details.
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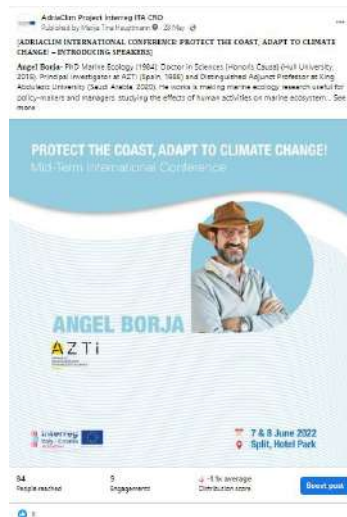
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[ADRIACLIM INTERNATIONAL CONFERENCE: PROTECT THE COAST, ADAPT TO CLIMATE CHANGE – INTRODUCING SPEAKERS]

Carlocciamenti Carlo Physicist, is Director of the National Agency for Meteorology and Climatology (Italia/AdriaClim). Previously, has been head of the AdriaClim Service of Air Quality, Emilia-Romagna Region. He has long experience as meteorologist and on meso-hydro-ecological risk indicators. He is author of about a hundred scientific articles in these topics and taught meteorology. See more.



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[ADRIACLIM INTERNATIONAL CONFERENCE: PROTECT THE COAST, ADAPT TO CLIMATE CHANGE – INTRODUCING SPEAKERS]

Daive Bonaldo is presently employed as a Research Scientist at the Institute of Marine Sciences of the National Research Council (CNR-ISMAR) in Venice (Italy). His current research activity deals with the investigation of meso-oceanic dynamics at the mesoscale and sub-mesoscale, based on the joint use of coupled atmosphere-ocean numerical models and observational data. See more.



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