

2014 - 2020 Interreg V-A
Italy - Croatia CBC Programme
Call for proposal 2019 Strategic

CoAStal and marine waters integrated monitoring systems for ecosystems proteCtion AnD managemEnt

CASCADE

Project ID: 10255941

Priority Axis: Environment and cultural heritage

Specific objective: Improve the environmental quality conditions of the sea and coastal area by
use of sustainable and innovative technologies and approaches

D2.4.5

Local events (about a total of n. 10 guided
tours, n. 10 laboratories, n. 10 seminars, n.
10 workshops, n. 5 scientific training)

PP in charge: All PPs

Report of scientific trainings

Final version

Public document

June, 2023

Project acronym	CASCADE
Project ID number	10255941
Project title	CoAStal and marine waters integrated monitoring systems for ecosystems protection AnD managemEnt
Priority axis	3 - Environment and cultural heritage
Specific objective	3.2 - Contribute to protect and restore biodiversity
Strategic theme	3.2.1 - Marine environment
Word Package number	WP2
Word Package title	Communication activities
Activity number	Activity 2.4
Activity title	Events, Training and Workshops
Partner in charge	All PPs
Partners involved	All PPs

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**CoAStal and marine waters integrated monitoring systems for
ecosystems proteCtion AnD managemEnt
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Priority Axis: Environment and cultural heritage
Specific objective: Improve the environmental quality conditions of the sea and coastal area by
use of sustainable and innovative technologies and approaches

Event follow up report



Work Package:	<i>2. Communication activities</i>
Activity	<i>2.4 – Events, Training and Workshops</i>
Deliverable:	<i>2.4.5 - Local events: organized events as defined in the AF (guided tours, laboratories, seminars, workshops, scientific training) and external events.</i>

Project Partner:	<i>LP - Regione Puglia</i>
Name of event:	<i>You are what You Sea</i>
Date:	<i>10 February 2023</i>
Event type:	<i>Organized event. Scientific Training</i>
Event venue:	<i>Online</i>
Short description of the event:	<p>On February 10th, the Scientific Training Online was focused on the cutting-edge technology applied to marine and oceanic ecosystems study: the pilot area of Torre Guaceto.</p> <p>The aim was to introduce and to describe the main techniques for studying marine ecosystems with an in-depth analysis on the technological progress that have contributed, in the last few decades, to an increasing detailed knowledge of both the sea and the ecosystems it houses. Thanks to this technology, it is now possible to monitor and foresee both the anthropic impact and the climate changes.</p> <p>In the end, it will be displayed a case study about Torre Guaceto, the pilot area, and the technologies involved in the continuous study of water quality in a marine protected area.</p>
Speakers speeches, brief summary and conclusion:	Dr. Viviana Piermattei, PP1-CMCC, was the relator that described methodologies and techniques applied in marine/coastal ecosystems and showed a case study in P3 – Torre Guaceto.
Role of CASCADE partner in the event:	The LP organized the event and Dr. Maria Nilla Miccoli, Communication Manager for LP- Regione Puglia, opened the works introducing the CASCADE project. Any further detail is http://cascade.commediasrl.it/it/eventi/cascade-project-you-are-what-you-sea-iii-d
Type of audience/target groups involved:	Professionals such as architects, geologists, engineering, biologists, etc.

Target groups (AF Section F)	Target groups reached in this event	Details of involved target
General public	49	<i>Professionals such as architects, geologists, engineering, biologists, etc.</i>



Local, regional and national public authorities		
Associations		
NGOs		
Education and training organizations as well as universities and research institutes		

Annexes:

- Screenshots from event,
- Links to websites, media relations and press releases issued,
- Poster and Agenda,
- Participation list.

Screenshots



Numerosi organismi marini vengono studiati per la loro capacità di produrre.....

Cliona intestinalis - produzione di biogas a partire dalla digestione anaerobica di questi organismi. Il gas digestore è costituito da metano e biossido di carbonio; da questa miscela è purificato il metano per la produzione di biogas.

Produzione di biogas da *microalghe*

...e depurare siti inquinati

Phialusia mammillata

BIC: batteri idrocarburoclastici

Alcanivorax borkumensis - batterio marino che si propaga nelle acque contaminate da petrolio

Persone ✕


🔊 Condividi invito

Partecipanti alla riunione (41)

- MM Maria Nilla Miccoli - Region... 🔊
- AB Alessia Benvestito (Guest) 🔊
- AM Alice Mastroviti (Guest) 🔊
- A AMU (Guest) 🔊
- AD Annamaria Dimundo (Guest) 🔊
- AS Antonio De Santis (Guest) 🔊
- AS arch P S (Guest) 🔊
- AC Arch. Riccardo Catamo (G... 🔊
- AV Arch. Serio Vincenzo (Guest) 🔊
- CM Carla Maniglio
Organizzatore 🔊

+34

RA GM S4 CM



Press release

<https://europuglia.regione.puglia.it/web/europuglia/-/tre-appuntamenti-dedicati-agli-studi-alle-attivit%C3%A0-e-ai-risultati-del-progetto-interreg-cascade>

REGIONE PUGLIA > POLITICHE EUROPEE E COOPERAZIONE INTERNAZIONALE > EUROPUGLIA A- A+

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Tre appuntamenti dedicati agli studi, alle attività e ai risultati del Progetto Interreg CASCADE



Tre nuovi appuntamenti per una full immersion dedicata agli studi, alle attività e ai risultati del Progetto Interreg CASCADE finanziato dal programma Italia-Croazia 2014-2020.

Il prossimo ciclo di webinar si articola in un **Seminario, il 7 febbraio alle ore 9.00**, per la condivisione di esperienze su attività tecnico-scientifiche svolte nelle aree marino-costiere pugliesi, tra le quali l'area pilota P3 (Torre Guaceto, Punta della Cortessa, Melendugno) Progetto Interreg CASCADE, e presentazione dei risultati.

In un **Workshop online, il 9 febbraio alle ore 15.00**, per la condivisione di esperienze sulle attività tecnico-scientifiche svolte nelle aree marino-costiere in Italia e Croazia con focus su alcune aree pilota del Progetto Interreg CASCADE, e presentazione dei risultati del progetto.

Infine, nello **Scientific Training Online, il 10 febbraio alle ore 10.00**, dedicato al tema dell'avanguardia tecnologica applicata allo studio degli ecosistemi marini e oceanici: il sito pilota di Torre Guaceto. Quest'ultima giornata di formazione ha come obiettivo la presentazione e la descrizione delle principali tecniche per lo studio degli ecosistemi marini con un approfondimento sugli avanzamenti tecnologici che hanno portato negli ultimi decenni ad una sempre più dettagliata conoscenza del mare e degli ecosistemi che ospita, grazie ai quali è possibile monitorare e prevedere quelli che possono essere gli effetti dell'impatto antropico e dei cambiamenti climatici.

Sarà, infine, presentato un **caso studio sul sito pilota di Torre Guaceto** e sulle tecnologie messe in campo per lo studio in continuo della qualità delle acque in un'area marina protetta.

La partecipazione è gratuita e permette, per ogni webinar, di conseguire 2 cpj per gli architetti e 1 cpj per le guide ambientali. Richiesti crediti apc per geologi.

SEMINARIO ONLINE

<https://www.regione.puglia.it/web/ambiente/-/cascade-project-%7C-you-are-what-you-sea>

REGIONE PUGLIA > AMBIENTE A- A+

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REGIONE PUGLIA Come fare per Portali tematici

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CASCADE PROJECT | YOU ARE WHAT YOU SEA

STUDI, ATTIVITÀ E RISULTATI DEL PROGETTO INTERREG CASCADE SEMINARIO 7 FEB 2023 | WORKSHOP 9 FEB 2023 | SCIENTIFIC TRAINING 10 FEB 2023





Tre nuovi appuntamenti per una full immersion dedicata agli studi, alle attività e ai risultati del Progetto Interreg CASCADE.

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https://m.facebook.com/story.php?story_fbid=pfbid0sJs8aikWWzXXfRwBMPqeamfGni698PvCAPYAtAbdtNM6BvSwEyqcdTeZEksJoBhl&id=100064031892955

 Cascade - Interreg Italy-Croatia
8 febbraio alle ore 10:00

"YOU ARE WHAT YOU SEA" | Cutting-edge technology applied to marine and oceanic ecosystems study: the pilot area of Torre Guaceto.
10:00 am – February 10th, 2023
TO APPLY FOR ACCREDITATION PLEASE SIGN UP HERE: <https://bit.ly/3Hj9Yb5>
TO ATTEND THE WORKSHOP, FOLLOW THE LINK: <https://bit.ly/3Wmg53o>
Please sign up by 3.00pm on February 8th, 2023.

"YOU ARE WHAT YOU SEA" | AWARENESS ABOUT THE MARINE AND COASTAL ENVIRONMENT, INFORMATION AND KNOWLEDGE DISSEMINATION ABOUT THE SCIENTIFIC ACTIVITIES AND RESULTS OF THE INTERREG PROJECT CASCADE_10 febbraio 2023

Registrandoti all'evento potrai essere accreditato al tuo ordine di riferimento.

* Required

NOME *

DOCS.GOOGLE.COM

"YOU ARE WHAT YOU SEA" | AWARENESS ABOUT THE MARINE AND COASTAL ENVIRONMENT, INFORMATION AND KNOWLEDGE DISSEMINATION ABOUT...

1

<https://www.regione.puglia.it/web/ambiente/-/i-webinar-di-cascade-un-network-per-il-mare?redirect=%2Fweb%2Fambiente>

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I WEBINAR DI CASCADE: UN NETWORK PER IL MARE



La presenza di oltre 550 partecipanti al ciclo di webinar del Progetto CASCADE è la conferma della straordinaria attenzione per il territorio, della rilevanza della gestione ecosistemica integrata e della pianificazione per preservare le aree protette.

Con ventuno relatori che hanno portato l'esperienza delle Università di Bari, Salento, Bologna e Venezia, con i rappresentanti dei partner e degli Enti coinvolti da CASCADE, i sette appuntamenti hanno proposto una panoramica completa degli aspetti amministrativi, delle applicazioni tecnologiche e dei percorsi tecnico scientifici necessari per assicurare il futuro delle aree protette e del pianeta.

Nelle diverse date, sono stati proposti approfondimenti sui temi della *soft restoration*, delle capacità di recupero delle specie, sulle attività tecnico-scientifiche svolte nelle aree marino-costiere delle aree di progetto rappresentate dalla laguna Veneta, dall'area di Goro, dall'AMP di Torre Guaceto e d'area marina di Salina Punta della Contessa.

Con CASCADE, è stato proposto uno spazio dedicato a tutti coloro che sono coinvolti nella pianificazione e gestione delle aree protette per analizzare e definire metodologie e strumenti necessari a garantire la gestione dei sistemi marini costieri.

Con CASCADE è stato promosso un network interdisciplinare per preservare il mare e l'ambiente in cui viviamo.

Per ogni informazione sul Progetto CASCADE e per il download dei materiali è possibile collegarsi al link cascade.commediasrl.it.

Documenti

- Poster
- Ascolta

<https://europuglia.regione.puglia.it/web/europuglia/-/i-webinar-di-cascade-un-network-per-il-mare>

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I webinar di CASCADE: un network per il mare



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Europuglia **Politiche Europee e Cooperazione internazionale** Ambiente Interreg Italia-Croazia

2014-2020

Publicato il 16 febbraio 2023

<https://www.italy-croatia.eu/web/cascade/-/news-cascade-project-s-webinar-a-network-for-the-sea>

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CASCADE PROJECT'S WEBINAR

Published on 23/02/2023 (last modified 23/02/2023)

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A NETWORK FOR THE SEA

The presence of more than five hundred and fifty participants at the series of webinar of CASCADE Projects is the confirmation of the extraordinary attention to the territory, of the importance of both the integrated ecosystem management and the planning for protected areas preservation.

Thanks to the 21 speakers, who have shared the experience of the Universities of Bari, Salento, Bologna and Venezia, and the representatives of partners and institutions involved in CASCADE projects, the seven appointments have spread a comprehensive overview of administrative aspects, technological applications and technical-scientific paths necessary to ensure the future of both the protected areas and the planet.

On the various dates, they have provided in depth-studies in the fields of soft restoration, species recovery capabilities, and technical-scientific activities carried out in the marine-coastal areas of the project such as the Venetian lagoon, the Goro area, Torre Guaceto MPA and the Salina Punta della Conessa marine area.

Together with CASCADE, it has been presented a space for all those who are involved in the protected areas planning and management, in order to analyze and define both the methodologies and the tools necessary to ensure the coastal marine systems management.

With CASCADE, they have promoted an interdisciplinary network to preserve the sea and the environment in which we live.

For any information about the CASCADE Project and to download the materials, please go to cascade.commediasrl.it

Poster and Agenda



STUDI, ATTIVITÀ E RISULTATI DEL PROGETTO INTERREG CASCADE



SEMINARIO ONLINE - ORE 9:00 - 7 FEBBRAIO 2023

PER RICHIEDERE L'ACCREDITAMENTO ALL'ORDINE REGISTRATI QUI: <https://bit.ly/3GVJPy8>
PER PARTECIPARE AL WORKSHOP VAI AL LINK: <https://bit.ly/3QUNL6T>
Adesione entro le ore 15.00 del 3 febbraio 2023.



WORKSHOP ONLINE - ORE 15:00 - 9 FEBBRAIO 2023

PER RICHIEDERE L'ACCREDITAMENTO ALL'ORDINE REGISTRATI QUI: <https://bit.ly/3CZQ173>
PER PARTECIPARE AL WORKSHOP VAI AL LINK: <https://bit.ly/3QPJHom>
Adesione entro le ore 15.00 del 7 febbraio 2023.



SCIENTIFIC TRAINING ONLINE - ORE 10:00 - 10 FEBBRAIO 2023

PER RICHIEDERE L'ACCREDITAMENTO ALL'ORDINE REGISTRATI QUI: <https://bit.ly/3Hj9Yb5>
PER PARTECIPARE AL WORKSHOP VAI AL LINK: <https://bit.ly/3Wmg53o>
Adesione entro le ore 15.00 del 8 febbraio 2023.

LA PARTECIPAZIONE È GRATUITA E PERMETTE DI CONSEGUIRE, PER OGNI WEBINAR, 2 CFP PER GLI ARCHITETTI, 1 PER GLI ISCRITTI AIGAE, RICHIESTI CREDITI APC PER GEOLOGI.

European Regional
Development Fund



CASCADE YOU ARE WHAT YOU SEA

STUDI, ATTIVITÀ E RISULTATI
DEL PROGETTO INTERREG CASCADE



SCIENTIFIC TRAINING ONLINE 10 FEB 2023 ORE 10:00

 DURATA
2:30 ore (10:00 - 12:30)

ISCRIZIONI:
Entro il 8 febbraio 2023

LINK PER LA REGISTRAZIONE:
<https://bit.ly/3Hj9YbS>

LINK PER PARTECIPARE:
<https://bit.ly/3Wmg53o>

L'AVANGUARDIA TECNOLOGICA APPLICATA ALLO STUDIO DEGLI ECOSISTEMI MARINI E OCEANICI: IL SITO PILOTA DI TORRE GUACETO.

La giornata di formazione ha come obiettivo la presentazione e la descrizione delle principali tecniche per lo studio degli ecosistemi marini con un approfondimento sugli avanzamenti tecnologici che hanno portato negli ultimi decenni ad una sempre più dettagliata conoscenza del mare e degli ecosistemi che ospita, grazie ai quali è possibile monitorare e prevedere quelli che possono essere gli effetti dell'impatto antropico e dei cambiamenti climatici. Sarà, infine, presentato un caso studio sul sito pilota di Torre Guaceto e sulle tecnologie messe in campo per lo studio in continuo della qualità delle acque in un'area marina protetta.

10:00 Dr. Viviana Piermattei - Fondazione CMCC - Centro Euro-Mediterraneo sui Cambiamenti Climatici.

12:00 QUESTION TIME
12:30 CHIUSURA DEI LAVORI

List of participants

2014 - 2020 Interreg V-A
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Priority Axis: Environment and cultural heritage
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Event follow up report



Work Package:	<i>Indicate if:</i> 2. Communication activities
Activity	<i>Indicate if:</i> 2.4 – Events, Training and Workshops
Deliverable:	<i>Indicate if:</i> 2.4.5 - Local events: organized events as defined in the AF (guided tours, laboratories, seminars, workshops, scientific training) and external events. In this deliverable both organized meetings and external events attended by PPs must be included

Project Partner:	Institute of oceanography and fisheries Dubrovnik Neretva County
Name of event:	The occurrence of paralytic (PSP) toxins in the mussels of the Croatian Adriatic
Date:	07.04.2022
Event type:	<i>Scientific training</i> <i>Organized event</i>
Event venue:	<i>In presence</i>
Short description of the event:	Institute of Oceanography and Fisheries and Dubrovnik Neretva County organized scientific training which was held at the Faculty of Sciences (PMF) in University of Split as part of the project CASCADE. Mr.sc. Romana Roje-Busatto gave a presentation on "The occurrence of paralytic (PSP) toxins in the mussels of the Croatian Adriatic" and presented to the students the objectives of project CASCADE and the analyses carried out in Laboratory for plankton and toxicity of mussels.
Speakers speeches, brief summary and conclusion:	Mr.sc. Romana Roje-Busatto gave a lecture on "The occurrence of paralytic (PSP) toxins in the bivalves of the Croatian Adriatic" and explained to the students that in the sea the process of photosynthesis in some species of phytoplankton can produce organic compounds that have toxic effects under certain environmental conditions. Because mussels feed by filtration, they accumulate various substances from seawater in their soft, edible tissues, including toxins that are not harmful to the mussels themselves but cause poisoning in humans, other mammals and birds that consume them. Due to the harmlessness of consumption, regular weekly analyses of the presence and amount of natural biotoxins in farmed mussels and mussels from natural stocks have been conducted in the Adriatic Sea since 2000. At the end of the scientific training, she concluded that the risk of poisoning in Croatia is very low and the control of mussels before placing them on the market is mandatory!

Role of CASCADE partner in the event:	mr. sc. Romana Roje-Busatto has completed scientific training as an employee of the Institute of Oceanography and Fisheries
Type of audience/target groups involved:	Students

Target groups (AF Section F)	Target groups reached in this event	Details of involved target
General public		
Local, regional and national public authorities		
Associations		
NGOs		
Education and training organizations as well as universities and research institutes	11	PMF students

Annexes:

- Photos from events (it is preferable to have few photos where CASCADE logo is visible - on presentation, poster, roll-up, promotional materials etc.),
- Screenshots, Invitation, Agenda, Minutes, Participation list (if available), Abstract, etc.

Explanation:

By the end of project, in LIBRARY and TOOL section of project website must upload:

- Reports of all meetings,
- Reports of all events organized (local events, etc.),
- Reports of participation in external events,
- PDF versions of promotional materials,
- Reports with links to websites, media relations and press releases issued.

Annexe 1:

- Photos from scientific training







Institut za oceanografiju i ribarstvo

April 13 at 9:56 AM · 🌐

🗨️ U moru, procesom fotosinteze, neke vrste fitoplanktona pri određenim okolišnim uvjetima mogu proizvesti organske spojeve koji imaju toksično djelovanje.

Kako se školjkaši hrane filtracijom oni u svom mekom jestivom tkivu nakupljaju razne tvari iz morske vode, pa tako i toksine koji nisu štetni za samog školjkaša ali jesu uzrok trovanja ljudi, drugih sisavaca i ptica koji njih konzumiraju.

Zbog sigurnosti konzumacije, u Jadranu se od 2000. godine provode redovite tjedne an... See more



👍 39

3 Shares

AGENDA

Interreg Italy – Croatia CASCADE

Faculty of Sciences (PMF), University of Split, Scientific training

07. 04. 2022	
9:30 – 10:00	Registration
10:00 – 10:40	Presentation of CASCADE project activities <i>Mr.sc. Romana Roje-Busatto, Institute of Oceanography and Fisheries</i>
10:40-10:50	Coffee break
10:50 – 12:30	The occurrence of paralytic (PSP) toxins in the mussels of the Croatian Adriatic <i>Mr.sc. Romana Roje-Busatto, Institute of Oceanography and Fisheries</i>
12:30 – 13:30	Discussion and conclusions
13:30	End of the meeting

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Event follow up report

Work Package:	2. Communication activities
Activity	2.4 - Events, Training and Workshops
Deliverable:	D2.4.5 [PP in charge: all PPs, delivery: M1-M36] local events (about a total of n. 10 guided tours, n. 10 laboratories, n. 10 seminars, n. 10 workshops, n. 5 scientific training)

Project Partner:	PP6 University of Bologna
Name of event:	SCIENTIFIC TRAINING ON STUDY OF TRANSITIONAL ENVIRONMENTS BASED ON PHYTOPLANKTON AND ITS CHARACTERISTICS
Date:	03.11.2022
Event type:	Scientific training with students of the UNIBO Master Degree in Marine Biology
Event venue:	Lake of the Nazioni and southern side of the Goro Lagoon (Lido di Volano)
Short description of the event:	The event consisted in a scientific training, aimed at students of the Master Degree in Marine Biology, who learned and practiced sampling activities, very similar to those usually carried out for the study of the ecological status of the environment and which are mainly related to the use of phytoplankton as indicator. Similar activities are also carried out within the Italy-Croatia CASCADE project by the CIRSA-UNIBO group that deals with the characterization of the transition environments of Emilia-Romagna. The field work was followed by laboratory analysis and the obtained results showed to the students comparative aspects of the water column characteristics of a brackish environment and a coastal marine one.
Speakers speeches, brief summary and conclusion:	<p>The overall activity started a couple of day before the practical training with a lecture performed by the organizer and teacher Rossella Pistocchi who illustrated the environmental and ecological importance of transition areas, the standard monitoring activity performed by ARPAE in Lake of the Nazioni, in the Goro Lagoon and in the Adriatic coastal area and also showed the research activities performed by UNIBO partenrs in CASCADE project for the Pilot area 2, aimed at verifying the possibility of an integrated monitoring through the use of innovative methods.</p> <p>The practical activity started on November 3rd 2022 leaving from Ravenna by bus and reaching the northern area of the Lake of Nazioni as first sampling site. Here the first set of samplings was performed by measuring water parameters (salinity, temperature, oxygen) in 2 different stations of</p>

	<p>the northern side of the lake and by taking surface water with Niskin bottle. The sampled water was used to measure chlorophyll fluorescence by means of a portable Turner fluorometer, a fixative was added to subsequently analyze the phytoplankton by optical microscope and aliquots were filtered for subsequent analysis of nitrate and phosphate. The group went then on the Adriatic coast at Lido di Volano and, after lunch, same measurements and samplings as before were performed in two sites along a pier 200 meters long. This time also a plankton net was utilized. During and after the lunch a meeting with a local stakeholder was also performed; he illustrated the economic activities, mainly aquaculture, performed in the Sacca di Goro and the importance of the water management. The field training activity ended at 4 pm when the travel back to Ravenna was started.</p> <p>The following day the students came back to the University laboratories to measure nitrate and phosphate with HACH kits and a portable instrument.</p>
Role of CASCADE partner in the event:	The workshop has been organized by UNIBO partners dealing with phytoplankton studies (Rossella Pistocchi, Franca Guerrini, Laura Pezolesi and Riccardo Bentivogli) and by 1 dealing with benthos (Marina Colangelo); they were also the instructors for the different kind of samplings and analysis that were shown and which the students could practice in person.
Type of audience/target groups involved:	Total participants were 44, these included 5 partners in CASCADE project and 1 stakeholder as detailed in the table below plus the bus driver.

Target groups (AF Section F)	Target groups reached in this event	Details of involved target
General public	1	Stakeholder working in local aquaculture activities
Local, regional and national public authorities		
Associations		
NGOs		
Education and training organizations as well	43	4 professors, 1 grant researcher, 2 former students and 36 master students from UNIBO

as universities and research institutes		
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Annexes:

- Photos from events
- Agenda, Participation list
- Link to website: [Study of Transitional Environments Based on Phytoplankton and its Characteristics — Centre for Research in Environmental Sciences - CIRSA — Interdepartmental Research Centre \(unibo.it\)](#)





Scientific training for Master Degree students in Marine
Biology (Pilot area 2 – CASCADE project)

STUDY OF TRANSITIONAL ENVIRONMENTS BASED ON PHYTOPLANKTON AND ITS CHARACTERISTICS

November 3, 2022 (9,00 am – 5,00 pm)

Program

Sampling area #1: “Spiaggia Romea” village, north side of the Lake
of the Nazioni (FE) (brakish area)

10,00 am: Gathering in the village: introduction to the area

10,30 am: Water sampling from a small pier at two different distances from the shore
using different methods (phytoplankton net, Niskin bottle, integrated water
column sampler); acquisition of physical and chemical parameters (salinity,
temperature, dissolved oxygen, pH, chlorophyll fluorescence, irradiance);
subsampling in bottles for subsequent analysis of nutrients and for qualitative
and quantitative determination of phytoplankton.

1,00 pm: Transfer to the second site and lunch break

Sampling area #2: Lido di Volano pier (in the southern part of Goro
Lagoon) (FE) (marine area)

2,30 pm: Sampling of seawater at two different distances from the shore repeating the
activities performed in the morning



https://centri.unibo.it/cirsa/en/events/study-of-transitional-environments-based-on-phytoplankton-and-its-characteristics



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INTERDEPARTMENTAL RESEARCH CENTRE CENTRE FOR RESEARCH IN ENVIRONMENTAL SCIENCES – CIRSA

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Study of Transitional Environments Based on Phytoplankton and its Characteristics

Scientific training for Master Degree students in Marine Biology (Pilot area 2 – CASCADE project)



DATE: 03 NOVEMBER 2022 from 9:00 to 17:00

EVENT LOCATION: Sampling area #1: "Spiaggia Romea" village. Sampling area #2: Lido di Volano pier

TYPE: Scientific Training

2014 - 2020 Interreg V-A
Italy - Croatia CBC Programme
Call for proposal 2019 Strategic

**CoAStal and marine waters integrated monitoring systems for
ecosystems proteCtion AnD managemEnt
CASCADE**

Priority Axis: Environment and cultural heritage
Specific objective: Improve the environmental quality conditions of the sea and coastal area by
use of sustainable and innovative technologies and approaches

Event follow up report



Work Package:	<i>2. Communication activities</i>
Activity	<i>2.4 – Events, Training and Workshops</i>
Deliverable:	<i>2.4.5 - Local events: organized events as defined in the AF (guided tours, laboratories, seminars, workshops, scientific training) and external events.</i>

Project Partner:	PP13: University of Molise
Name of event:	La biodiversità degli ambienti marini in Abruzzo e Molise
Date:	15/03/2022
Event type:	<ul style="list-style-type: none"> - Scientific training - Organized event
Event venue:	P7: <ul style="list-style-type: none"> - Termoli, University of Molise
Short description of the event:	Scientific training about, habitats and species found especially along the Italian coast with a focus on the importance of Adriatic marine-coastal biodiversity and the main ecosystem services provided by marine environments.
Speakers speeches, brief summary and conclusion:	Dr. Maria Carla de Francesco, a marine biologist, covered several topics that provoked discussion among the students present at the event. The elements that characterize the landscape of the coastal marine environment were discussed; the main threats to the biodiversity of the coastal marine environment and the tools and actions to be taken to safeguard it (artificial and natural artifacts for the protection and conservation of biodiversity); another topic covered was tourism planning for the purpose of sustainability.
Role of CASCADE partner in the event:	The goal of the event was to engage university students on topics related to marine biodiversity and its protection, also involving authorities such as the Termoli harbor master and a representative of the Regional Agency for Agricultural, Rural and Fisheries Development (ARSARP).
Type of audience/target groups involved:	<ul style="list-style-type: none"> - Students - Associations - Authorities - General public

Target groups (AF Section F)	Target groups reached in this event	Details of involved target
General public	11	A group of Unimol students

Local, regional and national public authorities	2	Port Authority ARSARP (Agenzia Regionale per lo Sviluppo Agricolo, Rurale e della Pesca)
Associations		
NGOs		
Education and training organizations as well as universities and research institutes		

Annexes:

- Photos from events





- Event poster



Scientific Training: La biodiversità degli ambienti marini lungo la costa in Abruzzo e Molise



15 marzo 2022, ore 9:30-11:30



Università degli Studi del Molise – sede di Termoli (Aula Bertarelli)

Interverrà la Dott.ssa Maria Carla de Francesco
Biologa marina, Università degli Studi del Molise

Il training si occuperà di introdurre gli ambienti marini, habitat e specie presenti in particolare modo lungo le coste italiane con un focus sull'importanza della biodiversità marino-costiera adriatica e dei principali servizi ecosistemici offerti dagli ambienti marini.

Progetto CASCADE (CoAStal and marine waters integrated monitoring systems for ecosystems protection AND management) - INTERREG V-A Italy-Croatia CBC 2014-2020 European Regional Development Fund



UNIVERSITÀ
DEGLI STUDI
DEL MOLISE

Partner associati:



- Press release

<http://envixlab.unimol.it/training-scientifico-biodiv-marina/>

<https://www.facebook.com/107837484810983/photos/a.116800057248059/283743467220383/>

2014 - 2020 Interreg V-A
Italy - Croatia CBC Programme
Call for proposal 2019 Strategic

**CoAStal and marine waters integrated monitoring systems for
ecosystems proteCtion AnD managemEnt
CASCADE**

Priority Axis: Environment and cultural heritage
Specific objective: Improve the environmental quality conditions of the sea and coastal area by
use of sustainable and innovative technologies and approaches

Event follow up report



Work Package:	2. <i>Communication activities</i>
Activity	2.4 – <i>Events, Training and Workshops</i>
Deliverable:	2.4.5 - <i>Local events: organized events as defined in the AF (guided tours, laboratories, seminaries, workshops, scientific training) and external events.</i>

Project Partner:	PP13: University of Molise
Name of event:	Scientific training – “Training antipollution: recupero e servizio di monitoraggio ambientale solidi in mare”
Date:	29/04/2021
Event type:	<ul style="list-style-type: none"> - <i>Scientific training</i> - <i>External event</i>
Event venue:	P7: <ul style="list-style-type: none"> - Termoli
Short description of the event:	The event presented the goals and objectives of the Project and its ongoing and future activities, emphasizing the importance of local stakeholder involvement to enhance project success and impact.
Speakers speeches, brief summary and conclusion:	<p>Demonstration of a marine depollution intervention, with particular reference to solid and plastic waste in the sea.</p> <p>Demonstration of an environmental monitoring intervention in the delimited area useful for the mapping of waste present in the seabed.</p> <p>It has been underlined the importance of monitoring and depollution activities in promoting the sustainable development of marine activities, the protection and restoration of coastal areas and their biodiversity.</p>
Role of CASCADE partner in the event:	The event represented a public opportunity to meet the main stakeholders interested in the Molise pilot area on which the CASCADE Staff of UNIMOL is carrying out its monitoring, modeling and analysis activities.
Type of audience/target groups involved:	<ul style="list-style-type: none"> - Local institutions (Port Authority, City of Termoli), - Political representatives of Molise and Puglia - Civil Protection, - Business operators in the sector (Guidotti Ships s.r.l. and other ship owners) - Environmental associations (Legambiente Molise and Fridays for Future) - The weather service RAI-Meteo Molise - Schools: the Headmaster with teachers and students State Technical

Nautical Institute of Termoli

Target groups (AF Section F)	Target groups reached in this event	Details of involved target
General public	25	Local Community, Students, Entrepreneur, Local Tv
Local, regional and national public authorities	4	<ul style="list-style-type: none"> - Molise Region - Puglia Region - Port Authority, City of Termoli - Local Civil Protection
Associations	2	<ul style="list-style-type: none"> - Legambiente Molise - Friday for Future
NGOs		
Education and training organizations as well as universities and research institutes	1	<ul style="list-style-type: none"> - State Technical Nautical Institute of Termoli

Annexes:

Event photos:





Event poster:



GUIDOTTI SHIPS



29 Aprile 2021

ore 10:00 Presentazione intervento antinquinamento
ore 11:00 Dimostrazione intervento in mare

TRAINING ANTIPOLLUTION

*recupero e servizio di monitoraggio
ambientale solidi in mare*



presso M/N Zenit - Molo Nord-Est | Porto di Termoli
posti limitati per consentire il rispetto delle distanze di sicurezza



Press release:

<http://envixlab.unimol.it/envix-cascade-training-antipollution/>

<http://envixlab.unimol.it/fishing-for-litter-sulla-costa-molisana/>

Envix-Cascade - "Training antipollution"

1 maggio 2021 • laura • Cascade, Eventi, News, Progetti



"Il 29 aprile 2021 presso il Porto di Termoli si è svolto l'evento "Training antipollution" organizzato dalla Guidotti Ships s.r.l. a cui il Progetto CASCADE ha dato il suo patrocinio.

Durante l'iniziativa, che ha visto la partecipazione dello staff di **CASCADE**, si è tenuto un intervento volto a presentare obiettivi e finalità del Progetto e le sue attività progettuali in corso e future, sottolineando l'importanza del coinvolgimento dei portatori d'interesse locali per accrescere il successo e l'impatto progettuale.

L'evento in presenza, nel rispetto delle norme di sicurezza Covid-19, è stato una preziosa occasione pubblica per incontrare i principali stakeholder interessati all'area pilota molisana sui cui lo Staff CASCADE di UNIMOL sta svolgendo le sue attività di monitoraggio, modellizzazione e analisi.

All'evento hanno partecipato: istituzioni locali (Capitaneria di Porto, Comune di Termoli), rappresentanze politiche del Molise e regione limitrofa (Puglia), addetti della Protezione Civile, imprese e operatori del settore (Guidotti Ships s.r.l. e altri armatori), le associazioni ambientaliste Legambiente Molise e Fridays for Future, il servizio meteorologico RA-Meteo Molise, il Dirigente scolastico con docenti e allievi dell'Istituto Tecnico Nautico Statale di Termoli.



NEWS

il peso delle attività umane sull'ambiente marino

10 dicembre 2021

Workshop DEMETRA (MIPAAF) nel comune di Larino

18 novembre 2021

ENVIX nella World Space Week - L'America Latina e lo spazio: opportunità per le donne latinoamericane

29 settembre 2021

Notte dei ricercatori 2021 - UNIMOL - Termoli

29 settembre 2021

Notte dei Ricercatori 2021 a Termoli

15 settembre 2021

EVENTI

il peso delle attività umane sull'ambiente marino

10 dicembre 2021

Explanation:

By the end of project, in LIBRARY and TOOL section of project website must upload:

- Reports of all meetings,
- Reports of all events organized (local events, etc.),
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- Reports with links to websites, media relations and press releases issued.

2014 - 2020 Interreg V-A
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Call for proposal 2019 Strategic

**CoAStal and marine waters integrated monitoring systems for
ecosystems proteCtion AnD managemEnt
CASCADE**

Priority Axis: Environment and cultural heritage
Specific objective: Improve the environmental quality conditions of the sea and coastal area by
use of sustainable and innovative technologies and approaches

Event follow up report



Work Package:	<i>2. Communication activities</i>
Activity	<i>2.4 – Events, Training and Workshops</i>
Deliverable:	<i>2.4.5 - Local events: organized events as defined in the AF (guided tours, laboratories, seminaries, workshops, scientific training) and external events.</i>

Project Partner:	PP13: University of Molise
Name of event:	Scientific training with university students UniRomaTre
Date:	07/05/2021
Event type:	<ul style="list-style-type: none"> - <i>Scientific training</i> - <i>External event</i>
Event venue:	<i>P7:</i> <ul style="list-style-type: none"> - <i>Campomarino</i> - <i>Mouth of Biferno</i>
Short description of the event:	The CASCADE team met the students of the course of Ecology and Management of Coastal Ecosystems held by Prof. Alicia T.R. Acosta at the master's degree in Biodiversity and Ecosystem Management of the University Roma Tre.
Speakers speeches, brief summary and conclusion:	The main topics dealt with are the measurement and monitoring of the biodiversity of coastal dunes and dune environments.
Role of CASCADE partner in the event:	Contribution to the development of environmental education activities, and to spread awareness of the richness of coastal biodiversity in the places visited in Molise, as well as the fragility and threats to which they are exposed.
Type of audience/target groups involved:	<ul style="list-style-type: none"> - Students - Researchers - Professors

Target groups (AF Section F)	Target groups reached in this event	Details of involved target
General public	20	Students
Local, regional and national public authorities		
Associations		
NGOs		

Education and training organizations as well as universities and research institutes	1	- University of Roma Tre
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Annexes:

Event photos:







Press release:

<http://envixlab.unimol.it/envix-accoglie-gli-studenti-di-roma-tre-sulla-costa-molisana/>

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Event follow up report



Work Package:	<i>2. Communication activities</i>
Activity	<i>2.4 – Events, Training and Workshops</i>
Deliverable:	<i>2.4.5 - Local events: organized events as defined in the AF (guided tours, laboratories, seminaries, workshops, scientific training) and external events.</i>

Project Partner:	PP13: University of Molise
Name of event:	Scientific training – “Monitoraggio della biodiversità sulla costa molisana”
Date:	26-27/05/2021
Event type:	<ul style="list-style-type: none"> - <i>Scientific training</i> - <i>Organized event</i>
Event venue:	P7: <ul style="list-style-type: none"> - Campomarino - Mouth of Biferno
Short description of the event:	During the event, technicians from the Istituto Superiore per la Protezione e la Ricerca Ambientale (ISPRA) came to visit the areas of the NATURA2000 Network of the Molise coast of the CASCADE Project.
Speakers speeches, brief summary and conclusion:	<ul style="list-style-type: none"> - Field testing of biodiversity monitoring protocols - Visit and study of the Biferno ponds, a very important wetland area which is a refuge and nesting site for both sedentary and migratory bird species and hosts numerous habitats of Community interest - Exploration of the Juniper Dune (Habitat 2250) and the Ramitelli Woods, a rare example of residual lowland forest along the coast
Role of CASCADE partner in the event:	The UNIMOL team tested biodiversity monitoring protocols in the CASCADE P7 PILOT AREA. In particular, in "Mouth of Biferno - Campomarino".
Type of audience/target groups involved:	<ul style="list-style-type: none"> - University - Researchers - Professors

Target groups (AF Section F)	Target groups reached in this event	Details of involved target
General public	25	
Local, regional and	1	ISPRA - Istituto superiore per la protezione e la ricerca

national public authorities		ambientale
Associations		
NGOs		
Education and training organizations as well as universities and research institutes		

Annexes:

Event photos



Press release

<http://envixlab.unimol.it/visita-di-tecnici-dellispra-monitoraggio-della-biodiversita-sulla-costa-molisana/>

envixlab.unimol.it/visita-di-tecnici-dellispra-monitoraggio-della-biodiversita-sulla-costa-molisana/



The screenshot shows the website for EnviXLAB, a research and didactic center at the University of Molise. The main article is titled "VISITA DI TECNICI DELL'ISPRA: MONITORAGGIO DELLA BIODIVERSITA SULLA COSTA MOLISANA". The article text states that on April 26 and 27, 2021, two technicians from the Institute for Environmental Protection and Research (ISPRA) visited the Natura 2000 network areas on the Molise coast. They conducted field tests for biodiversity monitoring protocols in the CASCADE P7 pilot area, specifically in the ZSC "Foce Biferno - Litorale di Campomarino" (IT7222216) and the ZSC "Foce Saccione - Bonifica Ramitelli" (IT7222217). The article also mentions the ZSC "Foce Biferno - Litorale di Campomarino" (IT7222216) and the ZSC "Foce Saccione - Bonifica Ramitelli" (IT7222217).

Explanation:

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