ANA KARUZA, Ph. D.

PERSONAL INFORMATIONS

• Name	**Karuza Ana**
• Address	**Salita dei Granatieri 2, 34074 Monfalcone**
• Phone	**0481.281166**
• Mobile	**338.3565686**
• E-mail	**akaruza@inogs.it**
• Nationality	**Croatian**
• Citizenship	**Croatian and Italian**
• Place and date of birth	**München (Germany), 26/06/1976**
• Family status	**Married, mother of two children (age 7 and 9)**

EDUCATION

• Title of qualification awarded	**Ph.D. in Biomonitoring methodologies of environmental alterations**
• Name and type of organization	University of Trieste (Italy)
• Date and place	20/04/2006
• More infos	Dissertation title: *Biogeochemical cycle of organic matter in marine coastal environment: role of viruses in controlling the development of bacterial populations*
• Title of qualification awarded	**M. Sc. in Biological Sciences**
• Name and type of organization	University of Trieste (Italy)
• Date	20/07/2001
• More infos	Dissertation title: *Seasonal variations of growth and mortality of picoplanktonic popultations in the Gulf of Trieste and their relationships with the appearance of mucillage aggregates*
• Vote	107/110
• Title of qualification awarded	**Grammar school secondary degree**
• Name and type of organization	Prva hrvatska sušačka gimnazija u Rijeci 'Andrija Mohorovičić' (scientific gymnasium)
• Date	20/06/1995, Rijeka (Croatia)
• More infos	60/60
• Professional qualification	**Enabling to the Profession of Biologist**
• Date and place of qualification awarded	12/12/2001, University of Trieste (Italy)

WORK EXPERIENCE

Date	January 2016 - currently
Occupation or position held	OGS - affiliated

Dates	March 2006* – December 2015
Occupation or position held	**Post-doc** in Microbial Ecology
Name and address of employer	OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale - OGS, Oceanography Section (OCE), Via A. Piccard 54, Trieste (Italy) *interrupted twice for maternity leaves: from December 2006 to April 2008 and from December 2008 to January 2010
Dates	January 2005 – December 2005
Occupation or position held	**Post graduate fellowship**
Name and address of employer	Consorzio per la Gestione del Laboratorio di Biologia marina, Via A. Piccard 54, Trieste (Italy)
Dates	July 2003 - July 2004
Occupation or position held	**Post graduate fellowship**
Name and address of employer	Consorzio per la Gestione del Laboratorio di Biologia marina, Via A. Piccard 54, Trieste (Italy)
Dates	January 2003 – July 2003
Occupation or position held	**Post graduate grant** for the students of Alpe Adria Community aimed to the researches with topics resulting important for the geographic area Alpe Adria;
Name and address of employer	University of Trieste with the contribution of Friuli-Venezia Giulia Region
Dates	August 2003 – December 2003
Occupation or position held	**Collaboration contract**
Name and address of employer	Consorzio per la Gestione del Laboratorio di Biologia marina, Via A. Piccard 54, Trieste (Italy)
Dates	July 2002 – December 2002
Occupation or position held	**Collaboration contract**
Name and address of employer	Consorzio per la Gestione del Laboratorio di Biologia marina, Via A. Piccard 54, Trieste (Italy)

PROFESSIONAL SKILLS

- Sampling and processing of different matrixes (water, sediment and edible shellfish), both regarding biotic and abiotic parameters for ecological and sanitary quantitative and qualitative evaluation
- Utilization of laboratory equipment, as centrifuges, microscopes (optical and epifluorescence), spectrophotometer, β-counter, peristaltic and depression filtration systems, epifluorescence microscopy
- Determination of microbial abundances in (viruses and prokaryotes)
- Determination of different metabolic status (highly active and non active or dead) of prokaryotes by means of dying (DAPI) or incubation methods (CTC, PI)
- Determination of exoenzymatic prokaryotic activity by means of fluorogenic substrates
- Estimate of prokaryotic secondary production by use of radiactive label (^{3}H-TdR)
- Estimate of viral production by use of different methodological approaches (dilution method, viral production in already infected prokaryotes, determination by use of radiactive label - ^{3}H-TdR)

- Quantification of lysogenic bacterial fraction
- Estimate of growth and grazing rates by use of dilution approach
- Bacteriological analyses (total coliforms, fecal coliforms, *Streptococcus* sp, *Salmonella* sp...) in water, sediments and edible shellfish
- Labile organic matter quantification (proteins, lipids and carbohydrates) by use of spectrophotometric methods
- Experimental design, data processing, elaboration and cartography, scientific and technical reporting
- Data managing, submission and interfacing with Database systems (PANGEA, EPOCA, PERSEUS and EMODNET)
- Windows (Office Package), graphics and impagination (Corel, Adobe-PageMaker e -Table, Golden Software-Grapher e –Surfer, CAD, Ocean Data View) and statistics (Statistica - StatSoft)

RESEARCH ACTIVITY

It mainly focuses on planktonic marine microbes and on mechanisms that regulate their abundance, activity and diversity in the sea. It investigates their pivotal role in biogeochemical fluxes, marine trophic webs, community structure and carbon partitioning in different marine ecosystems. It consists both in basic and applied research, approaching the issues of public interest for the maintenance of biodiversity and the improvement of marine environment and human health. Researches in the field of the ecology of marine viruses are of my particular interest, where I personally conducted quite in exclusive manner this research line on behalf of former Laboratory of Marine Biology (LBM) and subsequently OGS.

My researches conducted in the last decade (intermittent by two maternity leaves) mainly followed the societal needs (and available funds!) to find adequate solutions and mitigation measures to global climate change. Thus, the increasing environmental and economic pressure shifted my interest from basic research in microbial ecology (distribution, abundance and production of marine viruses and prokaryotes, viral life strategies, metabolic status of prokaryotic community etc.) towards more applicative studies, i..e. application of previously acquired findings to the studies of changing environment which can be summarized below as follows:

- ocean acidification due to the increase of atmospheric CO_2 concentrations: study of microbial food web and its relationship with changing carbonate system;
- risk assessment of unexpected CO_2 leakage from Carbon Capture and Storage (CCS*) sites on marine communities and biogeochemical cycles impact by studying CO2-dominated hydrothermal vents as natural analogues;
  *CCS represents the mitigation measure to reduce atmospheric CO_2 concentrations
- impact of natural events of extraordinary extent (cold winter in 2012, long drought in summer 2006, sporadic mucilage formations) on the functioning of trophic webs with special focus on microbial loop;
- impact of anthropogenic stressors on marine trophic webs and water quality in the Adriatic, Ionian and Tyrrhenian seas: side-effects of liquefied natural gas terminals, aquaculture-induced changes in carbon flux and trophic web functioning, environmental pollution, sanitary risk associated to wastewater treatment plants, etc.);
- functioning of trophic webs in a changing environment with special focus on microbial loop in transition areas, i.e. by estimating the effect of applied improvement measures;
- studying the carbon flux in the trophic webs to better comprehend and possibly improve the sea food resource availability (and quality), as response to the growing requests and exploitation (shellfish farming, multi-trophic aquaculture);
- carbon transfer and microbial loop functioning due to different regimes of limiting-nutrient load (i.e. phosphates) of the wastewater effluents in the northern Adriatic;
- carbon flux within plankton communities and microbial dynamics associated to different water masses in the Adriatic Sea, with focus on the Adriatic pits and outlining the importance of microbes for the consideration of microbes to policy makers for MSFD.

Aside the above described research activities I was engaged in a dozen committed monitoring projects dealing with current social and global environmental problems. To mention some of the most important, the European Project for the evaluation of the state of the art of urban wastewater

PROJECTS

efficiency and needs for the improvement of Croatian coastline water quality (Adriatic Sea) and the ENEL Project for the assessment of feasibility of the given area as CCS site.

2006 - 2015 LTER – *Long Term Ecological Research*

2014 - 2015 RITMARE – *Ricerca Italiana per il Mare*

2014 *BALMAS - Ballast water management for Adriatic Sea protection*

2013 – 2015 Coastal Cities Pollution Control Project 'Hrvatske vode'

2013 PERSEUS (Policy-oriented marine Environmental Research for the Southern European Seas)-ADREX

2011 – 2014 ECO2 – *Sub-seabed CO2 Storage: Impact on Marine Ecosystems*

2011 – 2013 MEDSEA – *Mediterranean Sea Acidification in a changing climate*

2010 – 2012 RISCS – *Research into Impacts and Safety in CO2 Storage*

2010 ENEL – *Pre-injection offshore baseline survey*

2008 EMODNET – *European Marine Observation and Data Network*

2005 – 2007 ECOMADR – *Ecology of Adriatic Sea* Interreg III A Italy-Slovenia

2004 – 2005 ISPESL – *Identification of pathogenic opportunistic bacteria in bathing waters and in the areas used for shellfish farming* funded by Italian Ministry of Health

2004 – 2005 CORILA – *Consortium for Coordination of Research Activities Concerning the Venice Lagoon System II Research Programme* aimed to investigate structure, dynamics and functional characteristics of biological communities in the Venice lagoon (involved in WP2 - study of microbial loop in the Venice lagoon)

2002 – 2003 MAT - *Processes of mucillage formation in the Adriatic and Thyrrenian Seas*

2001 - 2002 *In fondo al mar* (*At the bottom of the sea*), joint project among Legambiente, WWF and Lega Pesca

2001 – 2006 INTERREG III - *Monitoring project of the Northern Adriatic – Study of the trophic state and the anomalies of the northern Adriatic system*

1999 – 2001 INTERREG II - *Monitoring project of the Northern Adriatic – Study of the trophic state and the anomalies of the northern Adriatic*

LANGUAGES

- **Croatian** - native speaker
- **Italian** – excellent written and fluent spoken
- **English** – excellent written and fluent spoken
- **German** – excellent written/good spoken
- **Slovenian** - good communication skills/working knowledge
- **French** – basic communication skills/working knowledge

LICENCES

- Registration into the **National Register of Biologists** (Ordine Nazionale dei Biologi www.onb.it) since 2003
- **Guiding license** (B type)
- **SSI diver license** (Open Water Diver 1st level)
- **Ski Instructor licence of Republic of Croatia** HZUTS (Hrvatski Zbor Učitelja I Trenera Skijanja, www.hzuts.hr) and ISIA (**International Ski Instructors Association**) - license, www.isiaski.org
- Licence of **Expert in Sport Nutrition** achieved by SANIS (Scuola di Nutrizione ed Integrazione nello Sport), www.sanis.it

PERSONAL INTERESTS

- Many, sport activity in general, but competitive tennis in particular- ranked FIT (Federazione Italiana Tennis) tennis player, current position n.103 in my category on Italian Federal ranking scale
- Human nutrition and healthy lifestyle-sport nutrition in particular, biointegrated medicine and use of phytotherapic remedies - professional consultancy in human nutrition and dissemination of healthy guidelines and lifestyle in the community, SINSEB member (Società Italiana Nutrizione Sport e Benessere)

PUBBLICATIONS

Peer-reviewed papers in international scientific journals

- Paoli S, Karuza A, Del Negro P, Fonda Umani S (2006) Daily variations of highly active bacteria in the northern Adriatic Sea. J Plankton Res 28(3): 325-335
- Karuza A, Del Negro P, Crevatin E, Fonda Umani S (2010) Viral production in the Gulf of Trieste (Northern Adriatic Sea): preliminary results using different methodological approaches. J Exp Mar Biol Ecol 383: 96-104
- Larato C, Celussi M, Virgilio D, Karuza A, Falconi C, De Vittor C, Del Negro P, Fonda Umani S (2010) Production and utilization of organic matter in different P-availability conditions: a mesocosm experiment in The Northern Adriatic Sea. J Exp Mar Biol Ecol 391: 131-142
- Karuza A, Celussi M, Cibic T, Del Negro P, De Vittor C (2012) Virioplankton and bacterio plankton in a shallow CO_2-dominated hydrothermal vent (Panarea Island, Tyrrhenian Sea). Estuar Coast Shelf Sci 97: 10-18
- Karuza A, Fonda Umani S, Del Negro P (2012) The (un)coupling between viruses and prokaryotes in the Gulf of Trieste. Estuar Coast Shelf Sci 115, 87-97.
- Franzo A, Karuza A, Celussi M, Fornasaro D, Beran A, Di Poi E, Del Negro P (2015). Foam production as a side effect of an offshore liquefied natural gas terminal: how do plankton deal with it? Environ Sci Poll Res, doi: 10.1007/s11356-015-4499-2.
- Karuza A, Caroppo C, Camatti E, Di Poi E, Monti M, Stabili L, Pansera M, Cibic T, Del Negro P (2015) 'End to end' planktonic trophic web and its implications for the mussel farms in the Mar Piccolo of Taranto, Ionian Sea, Italy. Environ Sci Poll Res. doi: 10.1007/s11356-015-5621-1.
- Cibic T, Bongiorni L, Borfecchia F, Di Leo A, Franzo A, Giandomenico S, Karuza A, Micheli C, Rogelja M, Spada L, Del Negro P (2015) Ecosystem functioning approach applied to a large contaminated coastal site: the study case of the Mar Piccolo of Taranto (Ionian Sea), Environ Sci Poll Res. doi: 10.1007/s11356-015-4997-2
- Ingrosso G, Giani M, Cibic T, Karuza A, Kralj M, Del Negro P (2015) Carbonate chemistry dynamics and biological processes along a river-sea gradient (Gulf of Trieste, Northern Adriatic Sea). J Mar Sys, doi:10.1016/j.marsys.2015.10.013

Peer-reviewed extended abstracts

- Karuza A, Del Negro P, Paoli A, Comisso S, Fonda Umani S (2004) Highly active bacteria in the surface waters of Gulf of Trieste (Northern Adriatic Sea). Rapp Comm Int Mer Médit 37: 277
- Bensi A, Del Negro P, Karuza A, Fonda Umani S (2004) Variazioni delle abbondanze batteriche e virali in relazione alla formazione di mucillagini nel Golfo di Trieste (Alto Adriatico). Biol Mar Medit 11(2): 486-489
- Karuza A, Del Negro P, Fonda Umani P (2006) Virioplancton nel Golfo di Trieste. Biol Mar Medit 13(1): 1006-1010
- De Vittor C, Del Negro P, Paoli A, Falconi C, Celussi M, Cataletto B, Fabbro C, Karuza A, Caramanna G, Lombardi S (2008) Field experiment to evacuate impacts of pH decrease on marine microbial assemblage. First EAGE CO_2 geological storage workshop, Budapest (Hungary)

- Karuza A, Crevatin E, Del Negro P (2010) Virioplankton distribution related to bacterial metabolic status during an autumn survey in the Northern Adriatic Sea. Rapp Comm Int Mer Médit 39: 374
- Giani M, Comici C, De Vittor C, Fabbro C, Falconi C, Karuza A, Kralj M, Ingrosso G, Lipizer M, Del Negro P (2012) Variazioni dell'acidità del sistema carbonatico e dell'attività batterica in acque costiere Nord Adriatiche. Biol Mar Medit 19(1):61-62
- Ingrosso G, Giani M, Celussi M, Cibic T, Comici C, Del Negro P, De Vittor C, Fabbro C, Karuza A, Kralj M (2013) Physical and biological influences of the variability of pH and carbonate system in the Gulf of Trieste (Northern Adriatic Sea). Rapp Comm Int Mer Médit 40: 233
- Karuza A, Beran A, De Vittor C, Del Negro P, Fonda Umani S. (2014) The role of virioplankton in mucilage dynamics. Biol Mar Medit 21(1): 327-328
- Beaubien SE, De Vittor C, Viezzoli D, Annunziatellis A, Bigi S, Celussi M, Colella S, Comici C, Graziani S, Karuza A, Kralj M, Lombardi S, Pacciaroni M (2014) Use of the Panarea natural test laboratory for offshore CO_2 leakage monitoring and impact studies, Fourth EAGE CO_2 geological storage workshop, Stavanger (Norway)
- Karuza A, Giani M, Ingrosso G, Del Negro P (2015) The extraordinary cold event (2012): How did it affect microbial dynamics in the Adriatic pits? Biol Mar Medit 22(1): 206-207

PRESENTATIONS

- Del Negro P, Crevatin E, Bensi A, Karuza A, Larato C, Fonda Umani S. Microbial loop efficiency inside mucillaginous aggregates of different origin". 8th Symposium on Aquatic Microbial Ecology (SAME-8), October 2002 – Taormina (poster)
- Bensi A, Del Negro P, Karuza A, Fonda Umani S. "Variazioni delle abbondanze batteriche e virali in relazione alla formazione di mucillagini nel Golfo di Trieste (Alto Adriatico)". 34° Congresso della Società Italiana di Biologia Marina, June 2003 - Port El Kantaoui, Tunisia (poster)
- Karuza A, Paoli A, Del Negro P, Fonda Umani S "Picoeucarioti nelle acque del Golfo di Trieste: appartengono alla specie *Micromonas pusilla* (Butcher) Manton & Parke (Prasinophyceae)? Riunione annuale della Società Botanica Italiana, Gruppo di Lavoro per l'Algologia, November 2003 – Trieste (oral presentation)
- Paoli A, Virgilio D, Lazzarini B, Karuza A, De Vittor C, Cabrini M, Del Negro P, Fonda Umani S. "Ruolo del picoplancton fototrofo nel Golfo di Trieste". Riunione annuale della Società Botanica Italiana, Gruppo di Lavoro per l'Algologia, November 2003 – Trieste (oral presentation)
- Karuza A, Del Negro P, Paoli A, Comisso S, Fonda Umani S "Highly active bacteria in the surface waters of Gulf of Trieste (Northern Adriatic Sea)". 37e Congrès de la CIESM, 7 – June 2004 – Barcelona (Spain) (oral presentation)
- Karuza A, Del Negro P, Fonda Umani S. "Virioplancton nel Golfo di Trieste". 36° Congresso della Società Italiana di Biologia Marina, May 2005 – Trieste (poster)
- Karuza A, Del Negro P. The importance of phage-host density assessment for viral ecology studies in the Northern Adriatic Sea", Scientific Committee for Oceanographic Research, Virus ecology in marine systems - Workshop on methods, 1-3 June 2006, University of British Columbia, Vancouver, Canada (poster)
- De Vittor C, Del Negro P, Paoli A, Falconi C, Celussi M, Cataletto B, Comici C, Fabbro C, Karuza A, Caramanna G, Lombardi S. Field experiment to evaluate impacts of pH decrease on marine microbial assemblage. First EAGE CO2 Geological Storage Workshop, September 2008, Budapest, Hungary (oral presentation)
- De Vittor C, Del Negro P, Celussi M, Cataletto B, Comici C, Fabbro C, Falconi CF, Karuza A, Voltolina F, Caramanna G, Lombardi S. Field experiment to evaluate impacts of pH decrease on marine microbial assemblage. VII Forum Italiano di Scienze della Terra, Rimini, September 2009 (oral presentation)

- Karuza A, Del Negro P, Celussi M, Fonda Umani S. Virioplankton distribution in northern Adriatic surface waters and its relationship with biotic and abiotic factors. 11th SAME, Piran (Slovenia), September 2009 (poster)
- Karuza A, Crevatin E, Del Negro P. Virioplankton distribution related to bacterial metabolic status during an autumn survey in the Northern Adriatic Sea. CIESM Congress, June 2010, Venezia (poster)
- Karuza A, Celussi M, Crevatin E, Del Negro P, Solidoro C, Fonda Umani S. Segnali di cambiamento nelle classi dimensionali planctoniche più piccole: dai virus ai batteri. Convegno 'Variazioni temporali e tendenze nelle caratteristiche meteorologiche ed oceanografiche dell'Adriatico settentrionale: la situazione nel Golfo di Trieste', Trieste 2-3 December 2010 (oral presentation)
- Cibic T, Cataletto B, Celussi M, Comici C, Covelli S, De Vittor C, Fabbro C, Falconi C, Franzo A, Giani M, Karuza A, Menchini G, Simeoni P, Del Negro P. To what extent does sediment contaminated by hydrocarbons and heavy metals affect the lagoonal ecosystem functioning? World Conference on Marine Biodiversity, September 2011, Aberdeen ,UK (oral presentation)
- Karuza A and De Vittor C. Viral dynamics near CO_2 vents at Panarea. International Workshop 'Leakage effects from natural analogues', Bergen, May 2013 (oral presentation)

  Giani M, Celussi M, Cibic T, Comici C, Del Negro P, De Vittor C, Fabbro C, Karuza A, Kralj M, Ingrosso G, Lipizer M. Physical and biological influences on the variability of pH and carbonate system in the gulf of Trieste (northern Adriatic sea). 2nd MedSea annual meeting, Creta, Greece, April 2013 (oral presentation)
- Ingrosso G, Giani M, Celussi M, Cibic T, Comici C, Del Negro P, De Vittor C, Fabbro C, Karuza A, Kralj M. Physical and biological influences of the variability of pH and carbonate system in the Gulf of Trieste (Northern Adriatic Sea) 40th CIESM Congress , Marseille, September 2013 (oral presentation).
- Karuza A, Fabbro C, Nasi F, De Ponte D, Querin S, Giani M, Del Negro P. Strategija monitoringa s preliminarnim rezultatima prve kampanje provedene duž hrvatske obale. Workshop Stanje tranzicijskih i priobalnih voda, Opatija (Croatia), 2 October 2013 (oral presentation)
- Karuza A. Jadranski morski ecosustav: Tranzicijske vode i eutrofikacija. Workshop Stanje tranzicijskih i priobalnih voda, Opatija (Croatia), 2 ottobre 2013 (oral presentation)
- Karuza A, Celussi M, Comici C, Giani M, De Vittor C. Viral shunt in CO_2-dominated hydrothermal vent of Panarea (Italy) poster, Final meeting RISCS Project, Paris, November 2013 (poster)
- Beaubien SE, De Vittor C, Viezzoli D, Annunziatellis A, Bigi S, Celussi M, Colella S, Comici C, Graziani S, Karuza A, Kralj M, Lombardi S, Pacciaroni M. Use of the Panarea Natural Test Laboratory for Offshore CO_2 Leakage Monitoring and Impact Studies. Fourth EAGE CO_2 Geological Storage Workshop, Stavanger, Norway, 22 April 2014 (oral presentation)
- Karuza A, Celussi M, Comici C, Giani M, De Vittor C. Viral shunt in CO_2-dominated hydrothermal vent of Panarea (Italy). CO2 GeoNet 9th Open Forum, Venezia (Italy), 20-22 May 2014 (poster)
- Karuza A., Celussi M., Comici C., Giani M., De Vittor C. Viral shunt in CO_2-dominated hydrothermal vent of Panarea (Italy). ECO2 annual meeting, Salina (Italy), 2-6 June 2014 (poster)
- Karuza A, Beran A, De Vittor C, Del Negro P, Fonda Umani S. The role of virioplankton in mucilage dynamics. 45° SIBM Congress, Venezia (Italy), 19 May 2014 (poster) **best poster award**
- Cibic T., Caroppo C., Karuza A., Di Poi E., Del Negro P. Who are the main planktonic

primary producers in Mar Piccolo of Taranto? Annual meeting of the Italian phycological group, Padova (Italy), 14 November 2014 (oral presentation)

- Cerino F., Fornasaro D., Karuza A., Ingrosso G., Kralj M., Comici C., Giani M., Cabrini M., De Vittor C. Autotrophic communities in natural CO_2-dominated waters of the Aeolian Islands (Tyrrhenian Sea). Annual meeting of the Italian phycological group, Padova (Italy), 14 November 2014 (oral presentation)
- Karuza A, Fabbro C, Giani M, De Ponte D, Predonzani S, Relitti F, Kralj M, Auriemma R, Beran A, Del Negro P. Coastal Cities Water Pollution Control Project: Monitoring strategy, data acquisition, analyses and reporting. Final meeting at the headquarter of 'Hrvatske vode', Zagreb 28th May 2015 (oral presentation)
- Karuza A, Giani M, Ingrosso G, del Negro P. The extraordinary cold event (2012): how it affected the microbial dynamics in the Adriatic Pits? Roma, 10-12 June 2015 (poster)
- Cibic T, Caroppo C, Di Poi E, Karuza A, Rogelja M, Del Negro P. Primary production and seasonal succession of different photoautotrophs (pico-, nano- and microplankton) in the Mar Piccolo of Taranto. Roma, 10-12 June 2015 (poster)
- De Vittor C, Kralj M, Karuza A, Beaubien S. How would the CO_2 leakage influence the chemical diffusion processes at sediment-water interface? CO2 GeoNet Open Forum, Venezia, 11-13 May 2015 (poster)
- Karuza A, Monti M, Di Poi E, De Vittor C, Ingrosso G, Giani M. Different C pathways associated with water masses in the Adriatic Sea: should we consider the microbes for the MSFD? PERSEUS Project final meeting 'Integrated Marine research in the Mediterranean and the Black sea', Bruxelles, 9-11 December 2015 (poster)
- Karuza A, Beaubien S, Comici C, Auriemma R, De Vittor C. Risk assessment of the offshore CCS natural analogue. Back to the past: would cyanobacteria benefit of unexpected CO2 leakage from geological storage? CO2 GeoNet Open Forum, Venezia, 9-11 May 2016 (poster)

TECHNICAL REPORTS

- Fonda Umani S. et al. (2001) Interreg II Italia-Slovenia – Progetto di Monitoraggio dell'Alto Adriatico, Final report July 1998 - June 2001, 112 pp.
- Fonda Umani S. et al. (2001) Interreg II Italia-Slovenia – Progetto di Monitoraggio dell'Alto Adriatico, Annual report July 2000 - June 2001, 202 pp.
- Solidoro C. et al. (2006*) Ecological role of key components in the "end to end" trophic food web of North Adriatic Sea in IMBER Update Issue No. 4.*
- Solidoro C. et al. (2007) Interreg IIIA *Integrazione* conoscenze dell'ecosistema marino, Ecologia del Mar Adriatico (EcoMADR Project), 324 pp.
- De Ponte D, De Vittor C, Lombardi S et al. (2010) *Pre-injection offshore baseline survey. Detailed report on the physical, chemical and biological characteristics of the designated site, based on existing knowledge*. 96 pp.
- McGinnis D, Beaubien SE, Bigalke N, Bryant LD, Celussi M, Comici C, De Vittor C, Feldens P, Giani M, Karuza A and Schneider von Deimling J (2011) *The Panarea natural CO2 seeps: fate and impact of the leaking gas (PaCO2) ; R/V URANIA, Cruise No. U10/2011, 27 July – 01 August 2011, Naples (Italy) – Naples (Italy)* EUROFLEETS Cruise Summary Report . IFM-GEOMAR, Kiel, 55 pp.
- Del Negro P. et al. (2011) *Funzionamento dell'ecosistema lagunare in aree inquinate. Rapporto di ricerca per il Commissario delegato per l'Emergenza Socio-Economico Ambientale determinatasi nella Laguna di Marano Lagunare e Grado, Regione Friuli Venezia Giulia,* 90 pp.
- De Vittor C, Beaubien SE and Karuza A. Istituto Nazionale di Oceanografia e Geofisica Sperimentale, Trieste, Italy, Università di Roma La Sapienza, Roma, Italy (2012) *Physical, chemical and biological survey at submarine CO2 vents off Panarea Island (Italy)* Cruise Report ECO2, 4 . , 19 pp.

- Del Negro P. et al. (2012) *Funzionamento dell'ecosistema lagunare in aree inquinate: canale Banduzzi. Rapporto di ricerca per il Commissario delegato per l'Emergenza Socio-Economico Ambientale determinatasi nella Laguna di Marano Lagunare e Grado, Regione Friuli Venezia Giulia*, 64 pp.
- Del Negro P. et al. (2012) *Funzionamento dell'ecosistema lagunare in aree inquinate: darsena Caffaro. Rapporto di ricerca per il Commissario delegato per l'Emergenza Socio-Economico Ambientale determinatasi nella Laguna di Marano Lagunare e Grado, Regione Friuli Venezia Giulia*, 64 pp.
- Beaubien S, De Vittor C, Viezzoli D (2012) D.2.8. Interim report on the results of field observations at Panarea test site. 48 pp.
- Beaubien S, De Vittor C, Viezzoli D (2012) D.2.16. Interim report on the results of field observations at Panarea test site. 68 pp.
- Queirós AM, Norling K, Amaro T, Nunes J, Cummings D, Yakushev E, Sorensen K, Harris C, Woodward M, Danovaro R, Rastelli E, Alve E, De Vittor C, Karuza A, Cibic T, Monti M, Ingrosso G, Fornasaro D, Beaubien SE, Guilini K, Vanreusel A, Molari M, Boetius A, Ramette A, Wenzhöfer F, de Beer D, Weber M, Grünke S, Bigalke N and Widdicombe S (2014) *Potential impact of CCS leakage on marine communities* ECO2 Deliverable, D4.1 . Plymouth Marine Laboratory, 86 pp.
- Tenerani L, Munoz Sanchez I, Giani M, Del Negro P, Gačić M, Fabbro C, De Ponte D, Pacciardi L, De Biasi AM, Karuza A, Predonzani S, Auriemma R, Nasi F, Relitti F, Beran A et al. Republic of Croatia - Coastal Cities Water Pollution Control Project 2 – Implementation of HV Sea Water Quality – Operational Monitoring, Final Report I, 798 pp.
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LESSONS AND DISSEMINATION

I was involved into the dissemination of the achieved results on national and international level, and holding lessons for italian and foreign undergraduated and graduated students, several training courses in Italian, English and Croatian languages.

JOURNAL REVIEWER

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