Short history of Kenya-Belgium collaborations, and the marine science landscape in Belgium







Prof. Dr. Jan Mees
General Director, Flanders Marine Institute
Chair, European Marine Board
27 October 2014



Content

- 1. VLIZ Mission and organisation
- 2. VLIZ-KMFRI collaboration
 - Memorandum of Understanding
 - Website
 - Research Vessel Mtafiti
- 3. History of marine science collaborations
 - Kenya-Belgium Project
- 4. Marine science landscape in Belgium
 - > Flemish marine research groups



Flanders Marine Institute - VLIZ

Mission

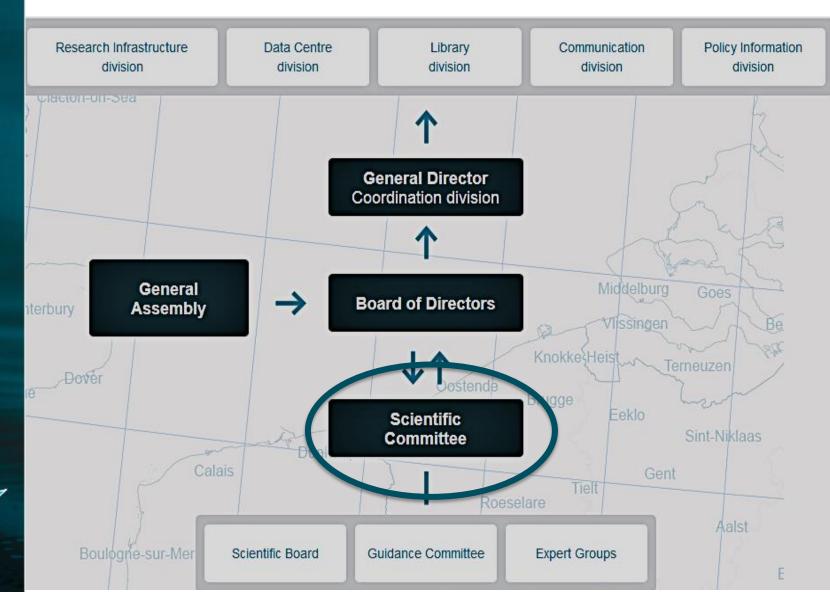
- Support marine and coastal sciences in Flanders
- Central coordination and information platform for marine scientific research
- International point of contact
- Representative for a multidisciplinary network of marine scientists in the country





Flanders Marine Institute - VLIZ

Organisation – Scientific Committee





Flanders Marine Institute - VLIZ

Scientific Board consists of representatives of:

- Ghent University (UGent)
- Katholieke Universiteit Leuven (KULeuven)
- Vrije Universiteit Brussel (VUB)
- University of Antwerpen (UA)
- Hasselt University (UHasselt)
- Institute for Agricultural and Fisheries Research (ILVO)
- Research Institute for Nature and Forest (INBO)
- Flemish Institute for Technological Research (VITO)
- Flemish Environment Agency (VMM)
- Flanders Heritage Agency
- Flanders Hydraulics Research (FHR)





VLIZ-KMFRI MoU

On 19 October 2012, VLIZ and KMFRI signed a Memorandum of Understanding (MoU), that renewed the collaboration between VLIZ and KMFRI, and their <u>marine research networks</u> in respectively Flanders/Europe and Kenya/WIO Region. The MoU will promote partnership in:

- Collaborative research projects
- Joint field work
- Exchange of expertise
- Capacity building and outreach
- Exchange of data and information
- Data and information rescue and integration
- Jointly producing derived products from research, data and information



www.vliz.be/kenya



HOME

ABOUT

KBP

ACTIVITIES

PICTURES

TIMELINE

NEWS

CONTACT

In 2012 the Kenya Marine and Fisheries Research Institute (KMFRI) and the Flanders Marine Institute (VLIZ) signed a formal Memorandum of Understanding to promote partnership in the field of marine sciences.



The Kenyan and Belgian delegations present for the signing of the VLIZ-KMFRI MoU, 2012 $\mbox{\ensuremath{\mathbb{C}}}$ Jan Mees

VLIR-UOS Kenya Seminar

29 Aug 2014



The Flemish
Interuniversity Council University Development
Cooperation (VLIR-UOS)

organizes a Kenya seminar on ...

Conference October 2014

22 May 2014



An International Conference, sponsored by VLIR-UOS (VLIR-INCO 2014), will be held in Mombasa, ...

older news

Data and publications



Access the librar

Professional photography



Access the photogallery

Conference Kenya 2014



Register now!



http://www.vliz.be/kenya/activities

ACTIVITIES



Information exchange - digital library

Joint efforts are directed towards the collection and digitization of literature on marine and coastal sciences in Kenya.

Search the library



Data rescue - data exchange

Data sets, resulting from marine research in Kenya, are being rescued from grey literature and made accessible to the scientific community through different databases.

Search the collection



Capacity building

Actions are undertaken towards capacity building through sharing of expertise, training sessions, education, infrastructure and technology development.

Learn more ...



http://www.vliz.be/kenya/activities



Communication and outreach

Activities are undertaken towards promoting public awareness and understanding of the Kenyan coastal and marine ecosystems and the importance of marine research for the maintenance of the natural resources the coast and ocean provide.

Learn more ...



Projects

Collaborative research projects will be developed and executed between KMFRI, and its coastal and marine science network in Kenya, and VLIZ, and its coastal and marine science network in Flanders, Belgium.

Learn more ...



Field work

Joint field work, research expeditions, experiments, monitoring and observation programmes will be organized within the frame of the MoU between VLIZ and KMFRI.

Learn more ...



http://www.vliz.be/kenya/data-and-publications



Publications

Access the library

Extra:

Coast and sea charts of Kenya available in pdf

Lists of publications resulting from Kenyan - Belgian collaborations:

- · Peer reviewed articles from Kenyan-Belgian collaborations (list)
- · Master theses by Kenyan researchers at Belgian Universities (list)
- · PhD theses by Kenyan researchers at Belgian Universities (list)
- Master theses by Belgian researchers on Kenyan topics (list)
- · PhD theses by Belgian researchers on Kenyan topics (list)

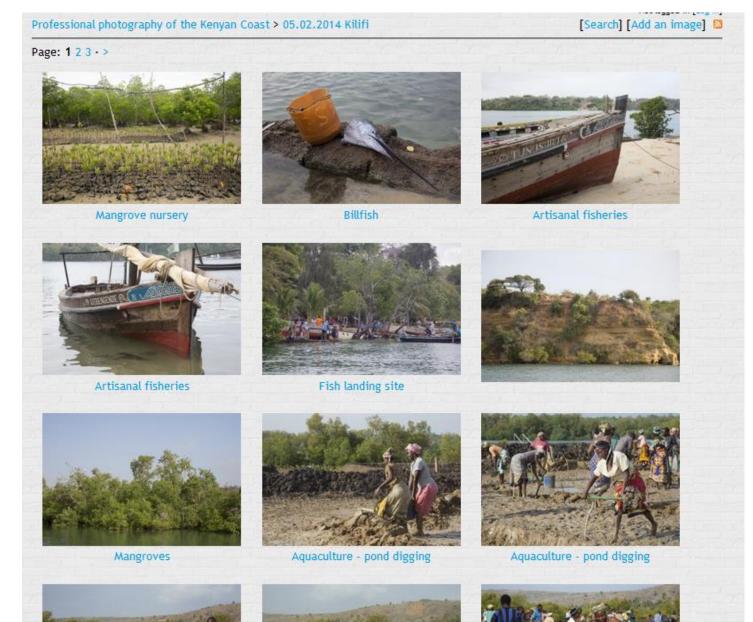


Data sets

Data sets from literature, projects, surveys, etc. are archived, digitized and collected within the frame of the VLIZ-KMFRI collaboration.

Access the data sets

http://www.vliz.be/kenya/professional-photography-kenyan-coast





« Previous Next »



Mangroves

Description: Kilifi, Kenya (5 February 2014).

Author: Decleer, Misjel

JPG file - 12.70 MB - 4988 x 3325 pixels [more]

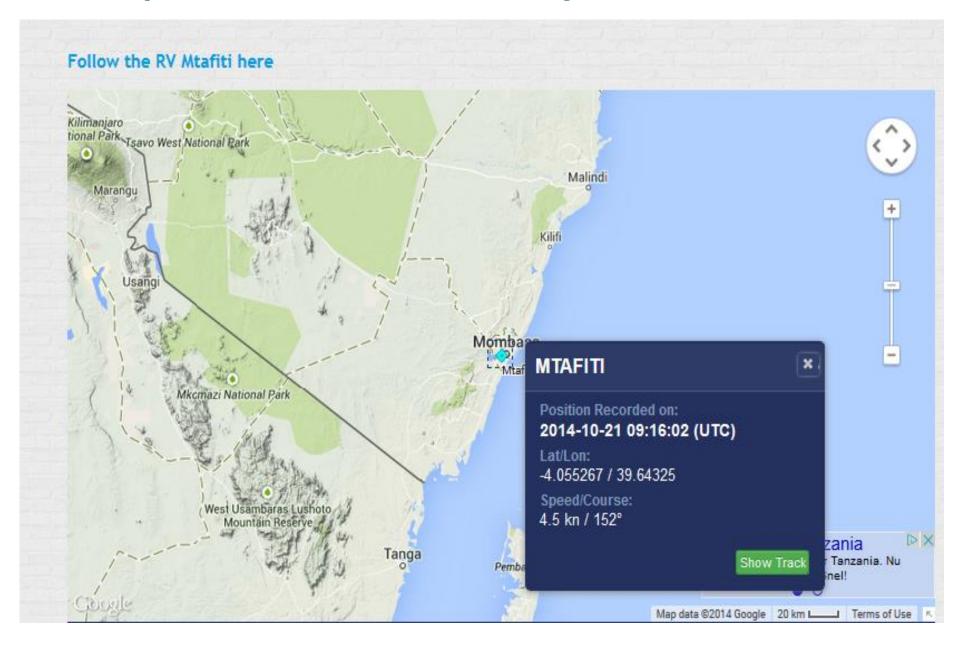
added on 2014-08-22 - 5 views

Image owner: Vlaams Instituut voor de Zee (VLIZ)

[Download full size]



http://www.vliz.be/kenya/field-work



Research Vessel Mtafiti

- In 2013, the research vessel RV Mtafiti was donated by the Government of Flanders to the Republic of Kenya.
- VLIZ installed navigational and sampling equipment on board and provided training of crew, technical and scientific staff.







May 2013, Ostend, Belgium



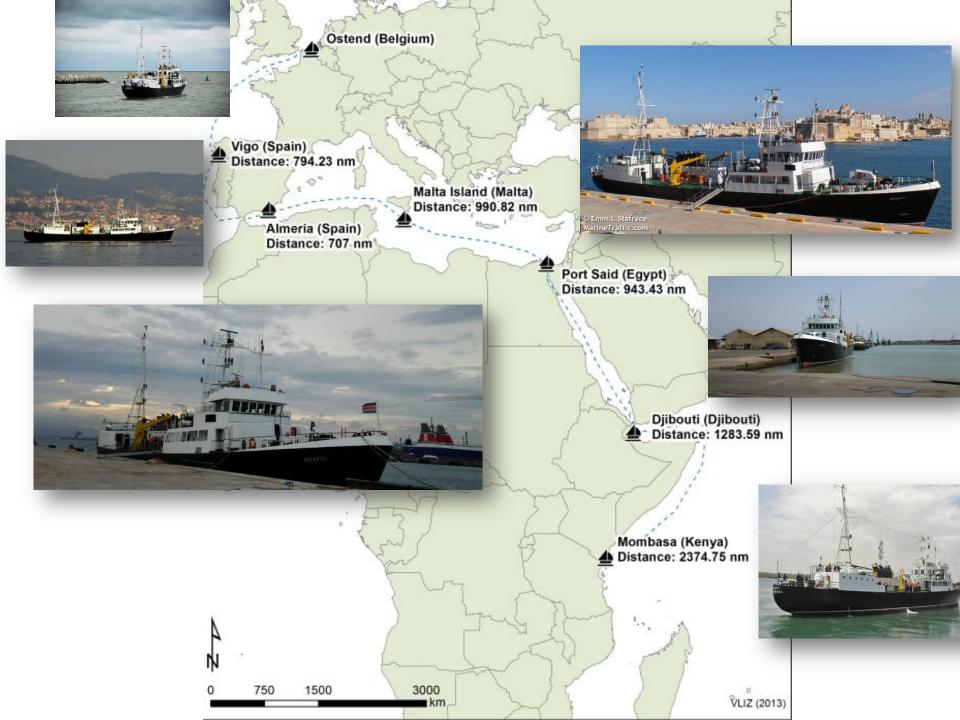




31 August 2013, Ostend, Belgium



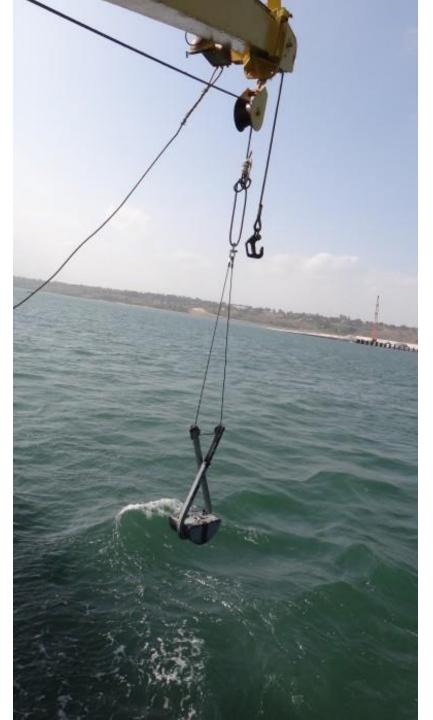




January 2014, Mombasa, Kenya





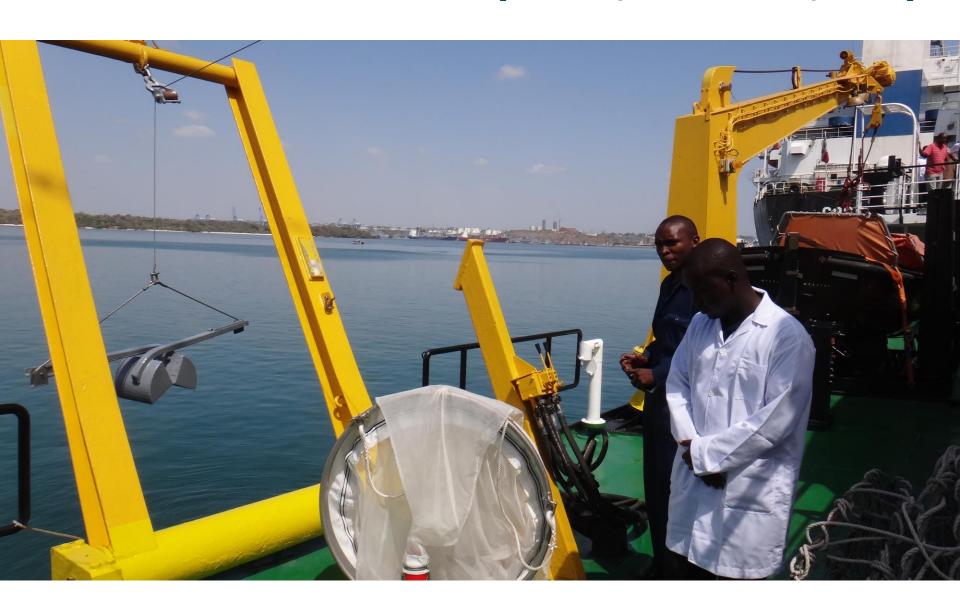




January 2014, Mombasa, Kenya



January 2014, Mombasa, Kenya







Historic Kenya - Belgium collaboration

- Kenya-Belgium Project in Marine Sciences (1984-1996)
- Follow-up projects 1997 onwards

OBJECTIVES:

- Fundamental and applied research
- Education (Postgraduate courses)
- Capacity Building











Fundamental and Applied Research









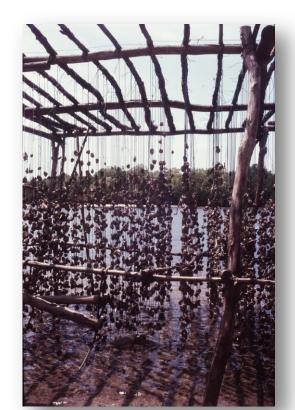


Fundamental and Applied Research



Application: Largest oyster farm at the East African Coast







Education – postgraduate courses











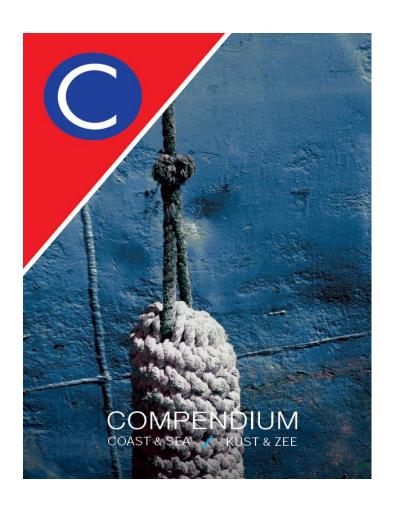
Scientific output

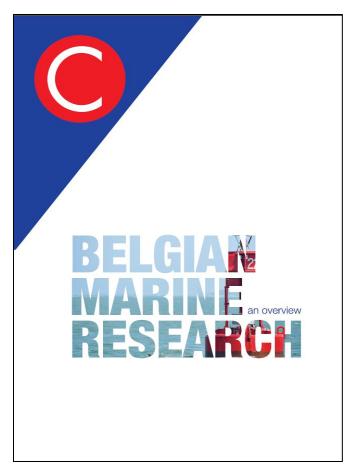
Inventory on VLIZ-KMFRI collaboration website on 21 October 2014:

- Peer reviewed articles from Kenyan-Belgian
 collaborations = <u>103</u>
- Master theses by Kenyan researchers at Belgian
 Universities = 36
- PhD theses by Kenyan researchers at Belgian
 Universities = <u>12</u>
- Master theses by Belgian researchers on Kenyan topics = <u>68</u>
- PhD theses by Belgian researchers on Kenyan topics= 8
- Archived thesis data sets = 65



The marine scientific landscape in Belgium

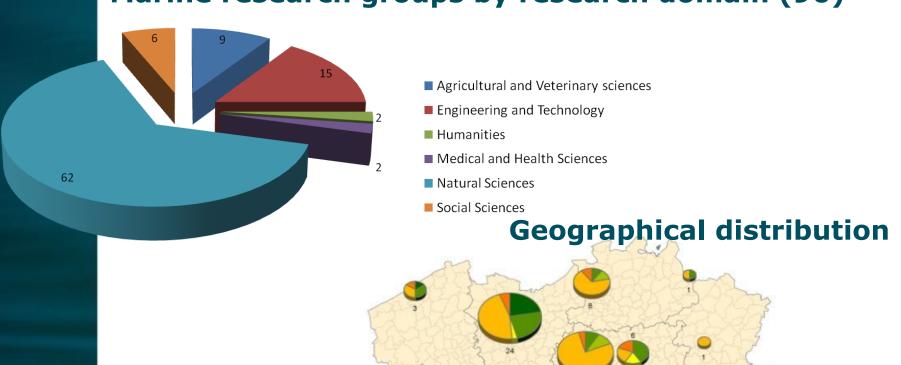






Mees, J, Verleye, T., Pirlet, H., Lescrauwaet, A.K., Janssen, C., Herman, R. (Eds.), 2013. Belgian Marine Research - an overview. Flanders Marine Institute (VLIZ), Oostende, Belgium, 127 pp.

The marine scientific landscape in Belgium Marine research groups by research domain (96)





Mees, J, Verleye, T., Pirlet, H., Lescrauwaet, A.K., Janssen, C., Herman, R. (Eds.), 2013. Belgian Marine Research - an overview. Flanders Marine Institute (VLIZ), Oostende, Belgium, 127 pp.

Ghent University (UGENT)

Research groups involved in marine science activities:

- 1. Laboratory of Aquaculture and Artemia Reference Center
- **Laboratory of Environmental Toxicology and Aquatic Ecology**
- Marine Biology Research group
- Phycology Research group
- **Evolutionary Morphology of Vertebrates**
- 6. Laboratory of Protistology and Aquatic Ecology
- Agro-food Marketing and Consumer Behavior
 Laboratory of Analytical Chemistry and Applied Ecochemistry
 Laboratory of Food Microbiology and Food Preservation
 Laboratory for Microbial Ecology and Technology
 Laboratory for Chemical Analysis
 Department of Morphology

- Research group Nutrition and Food Safety Hydraulics Laboratory Maritime Technology Division

- 10. Center for Mobility and Spatial Planning11. Coastal Engineering, Bridges and Roads; Coastal Engineering Research group
- 12. Research group Economy, Ecology and Demography 13. Faculty of Law Maritime Institute
- 14. Geomatics
- 15. Research unit Groundwater modeling

- 16. Laboratory of Microbiology17. Research unit Palaeontology18. Renard Centre of Marine Geology
- 19. Terrestrial Ecology Research group20. Laboratory for Applied Geology and Hydrogeology









Ghent University

Laboratory of Environmental Toxicology and Aquatic Ecology





Prof. dr. Colin Janssen

Ghent University

Marine Biology Research Group





Prof. dr. Ann Vanreusel

Ghent University

Laboratory of Aquaculture and Artemia Reference Center



Prof. dr. Patrick Sorgeloos



Prof. dr. Gilbert Van Stappen







Vrije Universiteit Brussel

Research groups involved in marine science activities:

- 1. Plant Biology and Nature Management Laboratory
- 2. Research group Analytical and Environmental Chemistry
- 3. Research group Marine Biology
- 4. Department of Hydrology and Hydraulic Engineering
- 5. Department of Art Sciences and Archaeology
- 6. Centre for International Law
- 7. Research group Physical Geography





Vrije Universiteit Brussel

Plant Biology and Nature Management Laboratory

Head: Prof. dr. Nico Koedam





dr. Karolien Van Puyvelde – coordinator Oceans and Lakes (postgraduate course)





VLIZ

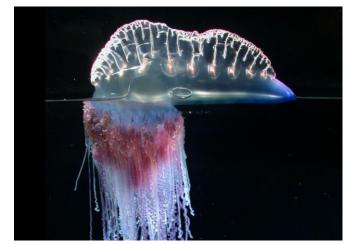
Prof. dr. Farid Dahoudh-Guebas (ULB) – apologized
Laboratory of Systems Ecology and Resource Management (ULB)

Katholieke Universiteit Leuven

Research groups undertaking marine science activities:

- 1. Laboratory for Toxicology and Food Chemistry
- 2. Laboratory of Aquatic Biology
- 3. Laboratory of Biodiversity and Evolutionary Genomics
- 4. Hydraulics Laboratory
- 5. Public Management Institute
- 6. Section ESAT ELECTA
- 7. Science, Engineering and Technology Group Division of Geology







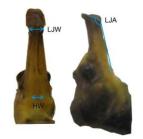
Universiteit Antwerpen

Research groups undertaking marine science activities:

- 1. Toxicological Centre
- 2. Ecosystem Management research group
- 3. Centre for Urban History
- 4. Department Transport and Regional Economy
- 5. Research group Functional Morphology
- Micro- and Trace Analysis Centre research group Environmental Analysis
- 7. Systemic Physiological and Ecotoxicological Research
- 8. Institute of Transport and Maritime Management Antwerp











Universiteit Hasselt

Research groups undertaking marine science activities:

- 1. Research group Informetrics: Marine Information Management
- 2. Faculty of Sciences Research group Zoology- Biodiversity and Toxicology



European MARINE BOARD Advancing Seas & Oceans Science

www.marineboard.eu

EMB membership

































































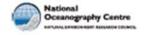




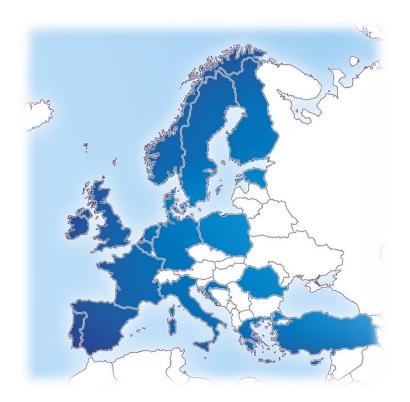








36 Member Organizations from 19 European countries



EMB mission



The European Marine Board provides a pan-European platform for its member organizations to:

- develop common priorities;
- advance marine research; and
- bridge the gap between science and policy;

in order to meet future marine science challenges and opportunities.

EMB Outputs





- Position Papers
- Vision Documents
- Future Science Brief

VLIZ-KMFRI collaboration

Will provide a new 'umbrella', under which:

- the legacy of KBP and its spin-offs can be valorised
- all on-going collaborations can be clustered
- new collaborations can be established
- the profile and visibility of marine science collaboration in both countries and internationally can be increased.







