

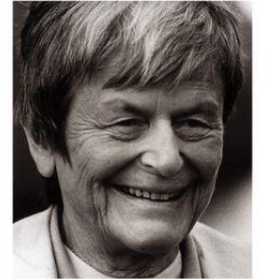


Wearing 2 hats – representing the International Ocean Institute (IOI)
and the University of Malta (UoM)
Prof. Alan Deidun (alan.deidun@um.edu.mt)

The International Ocean Institute and SDG 14



- IOI (International Ocean Institute):
- International NGO with special consultative status at the United Nations
- Arvid Pardo (1969) at the UN – driving force behind UNCLOS
- Founded in 1972, Elisabeth Mann Borgese
- Mission statement:
 - (1) To ensure the sustainability of the Ocean as a source of life and to uphold and expand the principle of the common heritage as enshrined in the United Nations Convention on the Law of the Sea;
 - (2) To promote the concept of Pacem in Maribus and its management and conservation for the benefit of future generations.
- International reach: regional centres in all the continents



Kerstin Holzer
Elisabeth
Mann Borgese
Ein Lebensportrait



International Ocean Institute



The International Ocean Institute and SDG 14

“Healthy Oceans – Healthy Coast”

International Leadership Conference towards achieving SDG 14

“Current challenges and opportunities in ocean and coastal sustainable development”

~ Celebrating 45 years of IOI and its work in Sustainable Ocean Governance ~

25-26 April, 2017 – Hong Kong



International Ocean Institute

Hong Kong Polytechnic University

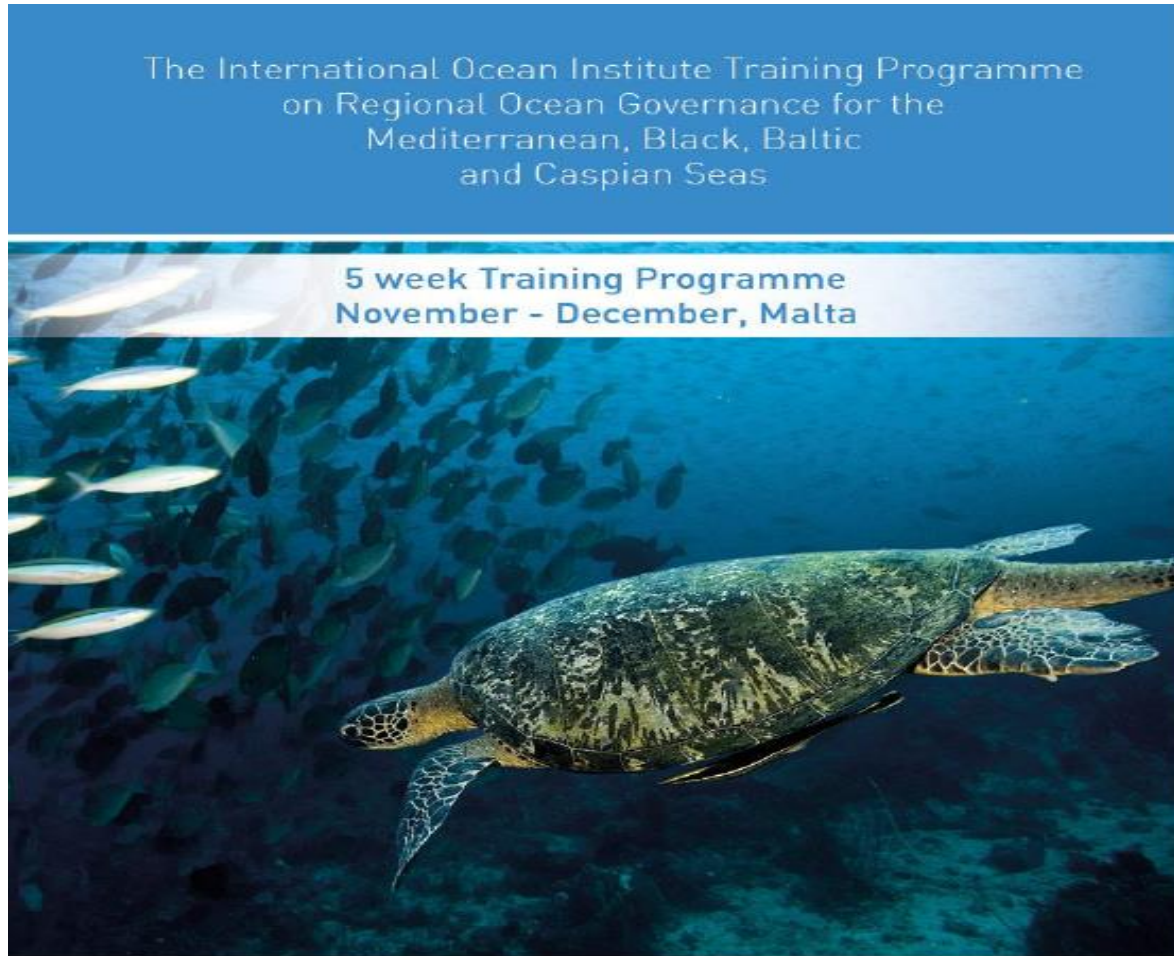


UNITED NATIONS
UNCTAD
United Nations
Conference on Trade
and Development

Shenzhen World Health Foundation



The International Ocean Institute and SDG 14



Training Courses on Ocean Governance in:

- Malta
- Canada
- South Africa
- China
- Thailand
- Turkmenistan
- Brazil/Costa Rica

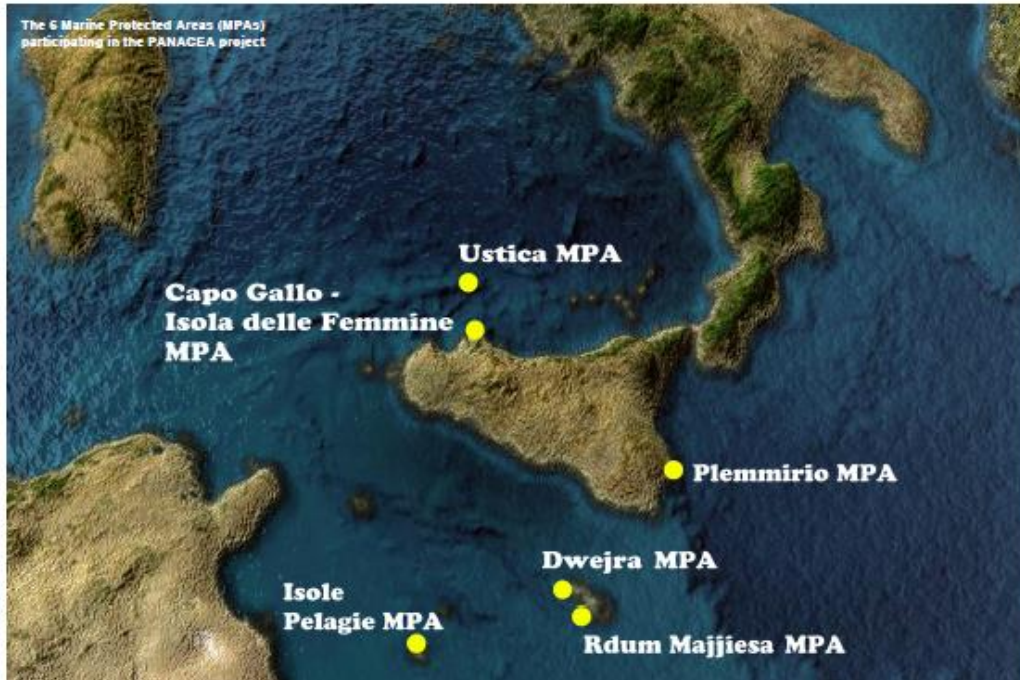


UNIVERSITY OF MALTA
L-Università ta' Malta



**International
Ocean Institute**

Overview of the PANACEA project



- Funded under the Italia-Malta 2007-2013 Operational Programme I
- 25th April 2011 – 30th September 2013
- Total budget: 2.2 million euro



Italy-Malta: European Union close
to Mediterranean
www.italiamalta.eu

Progetto cofinanziato dall'Unione Europea - Fondo Europeo di Sviluppo Regionale





Photo: Doi-Omar Camilleri

Over 50,000
youtube views
for the 3
documentaries

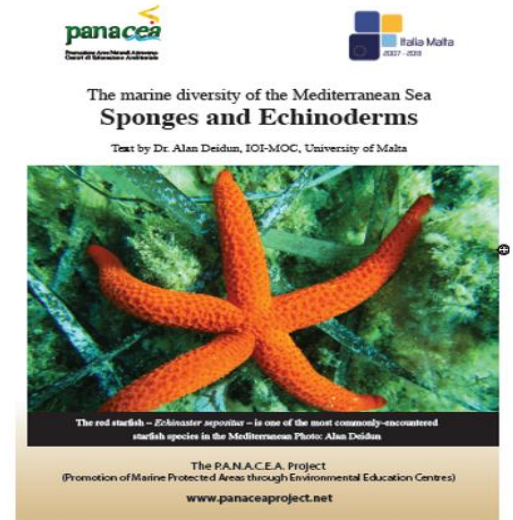
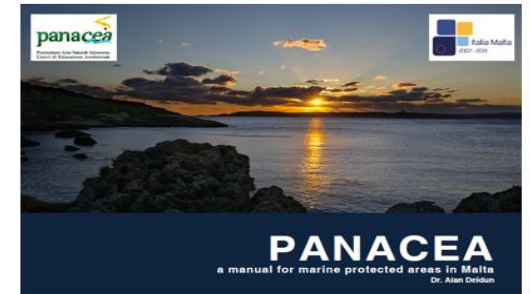


Dwejra - Stunning galaxy of marine wildlife - PANACEA



Photo: Doi-Omar Camilleri

Deliverables



DEVELOPMENT OF A NOVEL TOOL TO PREDICT DIFFERENT WATER QUALITY SCENARIOS WITHIN A MARINE PROTECTED AREA (MPA) IN THE MALTESE ISLANDS: THE 2D SHYFEM-BFM MODEL

Andrea Cucco, Georg Umgiesser, Alan Deidun, Raisa Tarasova, Joel Azzopardi, Adam Gauci



40th CIESM Congress – Marseille, France, 28 October - 1 November 2013

The Research Question:

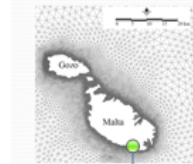
Can a coupled 2D model serve as an innovative tool for the management of Marine Protected Areas (MPA's)?

Introduction

The operational monitoring of the relevant water parameters is frequently thwarted by prohibitive demands on costs and manpower.



The Dwejra MPA
(Gozo, Maltese archipelago)



SHYFEM =
Coastal, finite
element
hydrodynamic
model

Biogeochemical
model

ROSARIO –
boundary
condition for
hydrodynamic
model

Boundary condition for
the biogeochemical
model

- Development of 2D coupled hydrodynamic and ecological model to act as a Decision Support System (DSS) in creating different water quality scenarios
- Nutrient load of boathouses was estimated through 'equivalent population' system
- 3 scenarios (boathouse numbers) were investigated over June-Sept period

Results and Discussion

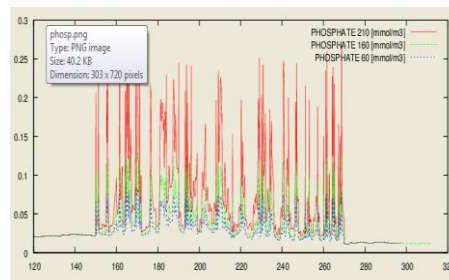
- The increase in phosphate levels translates in a corresponding increase (by 30%) in ammonium levels

However:

- dinoflagellate populations increase only marginally
- diatoms do not increase
- carnivorous and omnivorous zooplankton do not increase

The lack of cascade effect of more nutrients on different trophic levels could be due to intense hydrodynamic flushing and advection) at Dwejra, which result in low residence times for nutrients

Such models and scenario building could prove to be a useful tool to MPA managers



3 phosphate scenarios



3 dinoflagellate scenarios

Citizen science – Spot the Jellyfish

SPOT THE JELLYFISH
An IOI Kids initiative

Get involved this summer, learn about jellyfish and tell us their whereabouts!

Sending a Report

WHEN? WHICH? WHERE? HOW MANY?

Website: Visit www.ioikids.net/jellyfish to fill a quick and easy online form

SMS / Email: Send your report as an SMS on 79 222 278 OR as an email to ioi-moc@um.edu.mt

"No jellyfish observed" reports are also welcome!

Did you see a jellyfish not listed here? take a good photo or keep the specimen alive; contact us on 79604109

Take photos of jellyfish seen where possible

Jellyfish Advice

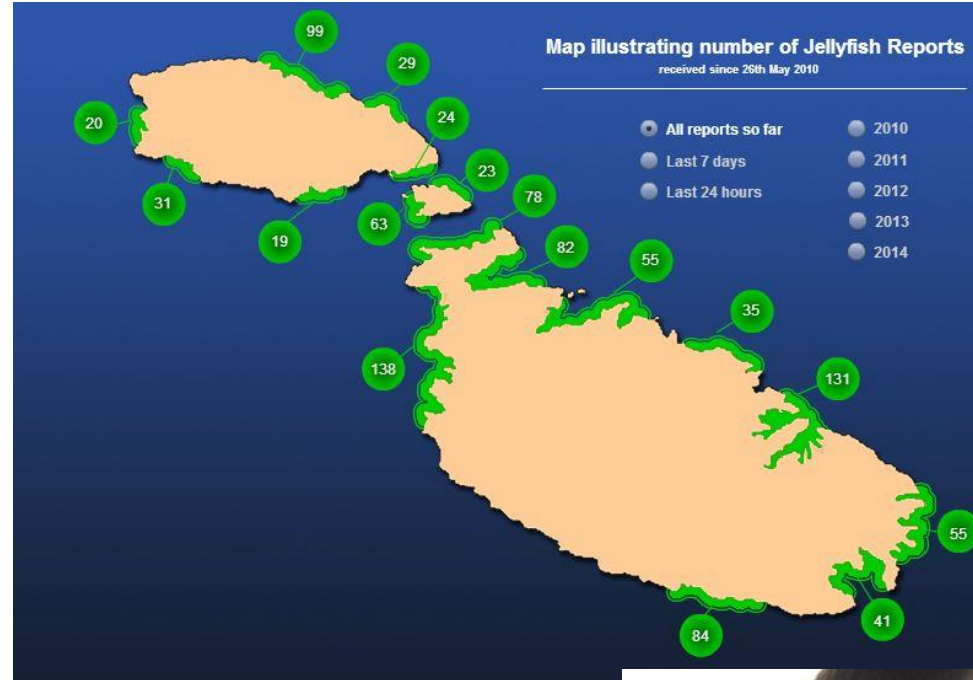
What to do if stung?

- Soak or rinse the area in sea water;
- DO NOT use fresh water as this releases more toxins
- Apply alcohol to the area
- DO NOT rub the area
- DO NOT apply ice or hot water
- Remove tentacles with a stick, card, or a pair of tweezers
- Seek immediate medical aid if you have: difficulty breathing or swallowing, chest pain or intense pain in the area

Public Health Contact Number: 21224071

PROJECT COORDINATOR: IOI-KIDS

SPONSORS: MALTA, FRIENDS OF THE MEDITERRANEAN, NTMA



Citizen science: Spot the Jellyfish (www.ioikids.net/jellyfish)


Citizen science – Spot the Alien Fish

















SPOT THE ALIEN FISH


Reporting an Alien Fish Sighting

WHEN the fish were sighted (date and AM or PM)
WHERE species of fish were sighted (refer to images below)
WHERE the fish were sighted
QUANTITY of fish (approximate number in the area)

Submitting a Report
 Phone: 22526988 / 79604109 (Fisheries Department Control Room - open 24hrs a day)
 Send your report by email: aliensmalta@gmail.com
 Visit www.aliensmalta.eu to fill a quick and easy online form



 1 - AFRICAN SEREAHT	 3 - SEREAHT MAJOR	 5 - INDIO-PACIFIC SEREAHT	 4 - TWORAK FERRARIAN	 6 - BLUE TANG SURSEHTISH
 8 - ANHINDYAN SURSEHTISH	 7 - SHRIAP SCAR	 9 - BLUE-SPOTTED SEABASS	 2 - MALABAR GROUPER	 10 - BLUE-SPOTTED COBBIT FISH
 11 - BLACK-BANDED HAIFREAH	 13 - RED SEA KAHMERFISH	 12 - SILVER-ONSESD YODAFISH	 14 - BLACKSPOT SHAPPER	 15 - SAKAB KHIFELAW
 16 - RETICULATED LEATHERHEAD	 17 - BULLSEYE SPECIES	 <p>INDICATED BY DASHED-RED LINE OCCURS IN FRESH WATERS</p> <p>SOLID-RED LINE OCCURS IN ATLANTIC OCEAN</p> <p>YELLOW TRIANGLE THIS FISH SHOULD NOT BE EATEN</p> <p>BLACK TRIANGLE VENOMOUS</p>		

PROJECT SUPPORTED BY: 

MARCH 2017


www.aliensmalta.eu





















SPOT THE ALIEN FISH


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 18 - AARAH TANG BERRY	 19 - STRIPED BELLCATFISH	 20 - YELLOWBAR ANGELEFISH	 21 - DEEP-SEA ROCKFISH	 22 - DEVIL FIRESH GLOTHFISH
 23 - REDCAT	 24 - EMPIEROR RED SHAPPER	 25 - SPOTTED SCAT	 26 - HAWK-BILLED SHAPER HAWK	 27 - BUSHY SPINERD
 28 - MARBLED SPINERD	 29 - GUYRA DA REX KARAKALHA	 30 - SPOTTED PORCUPINEFISH	 31 - RED SEA GOATFISH	 32 - PINKY GOATFISH
 33 - DOCTORFISH	 34 - BLUE TANG	 35 - PURPLE TANG	 36 - YELLOW TANG	 <p>Some species of alien fish not shown in this poster!</p> <p>It's a good idea to check the species and location before you start reporting.</p> <p>Send your report to aliensmalta@gmail.com or visit www.aliensmalta.eu to fill a quick and easy online form.</p> <p>These photos of alien fish seen where possible</p>

PROJECT SUPPORTED BY: 

Amare: Actions for Marine Protected Areas

Kick off Meeting
15-16th December 2016

To maintain biodiversity and natural ecosystems
Simonetta Frascchetti - University of Salento
CoNISMa

Multiple stressors

- (1) What are the human threats to the MPA and what are their effects?
- (2) How are these threats distributed and which ones are of greatest concern?
- (3) What is the cumulative impact from multiple human threats occurring simultaneously in marine habitats?
- (4) How can marine ecosystems be best managed in light of human threats?
- (5) Are there some threats that can be best managed?



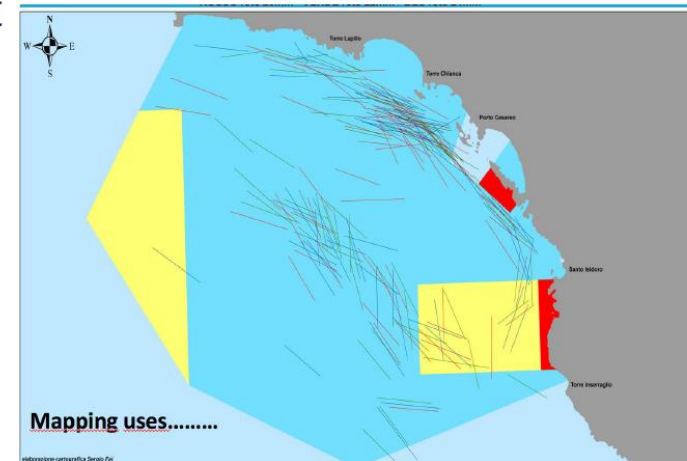
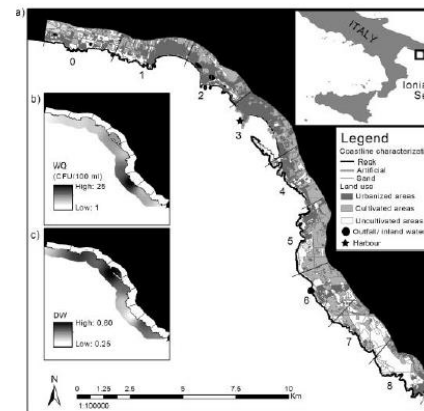
The partners



Conisma
CNR
CMCC
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CSIC
University of Malta
Torre Guaceto MPA
Balearic Island MPA
Sporades MPA

Bonifacio
Porto Cesareo MPA

Mapping threats at fine scale



Date for the diary



EUROPEAN MARINE SCIENCE EDUCATORS ASSOCIATION
CONFERENCE, MALTA 2017

7th - 10th October

www.emsea.eu

www.um.edu.mt/events/emsea2017