



**Bonifacio 4th and 5th June 2014:
Capitalization on European projects for a better
knowledge and management of biodiversity in the
Strait of Bonifacio**

EGCT-PMIBB Action Plan: a common strategy for biodiversity preservation

Gianluigi Cancemi

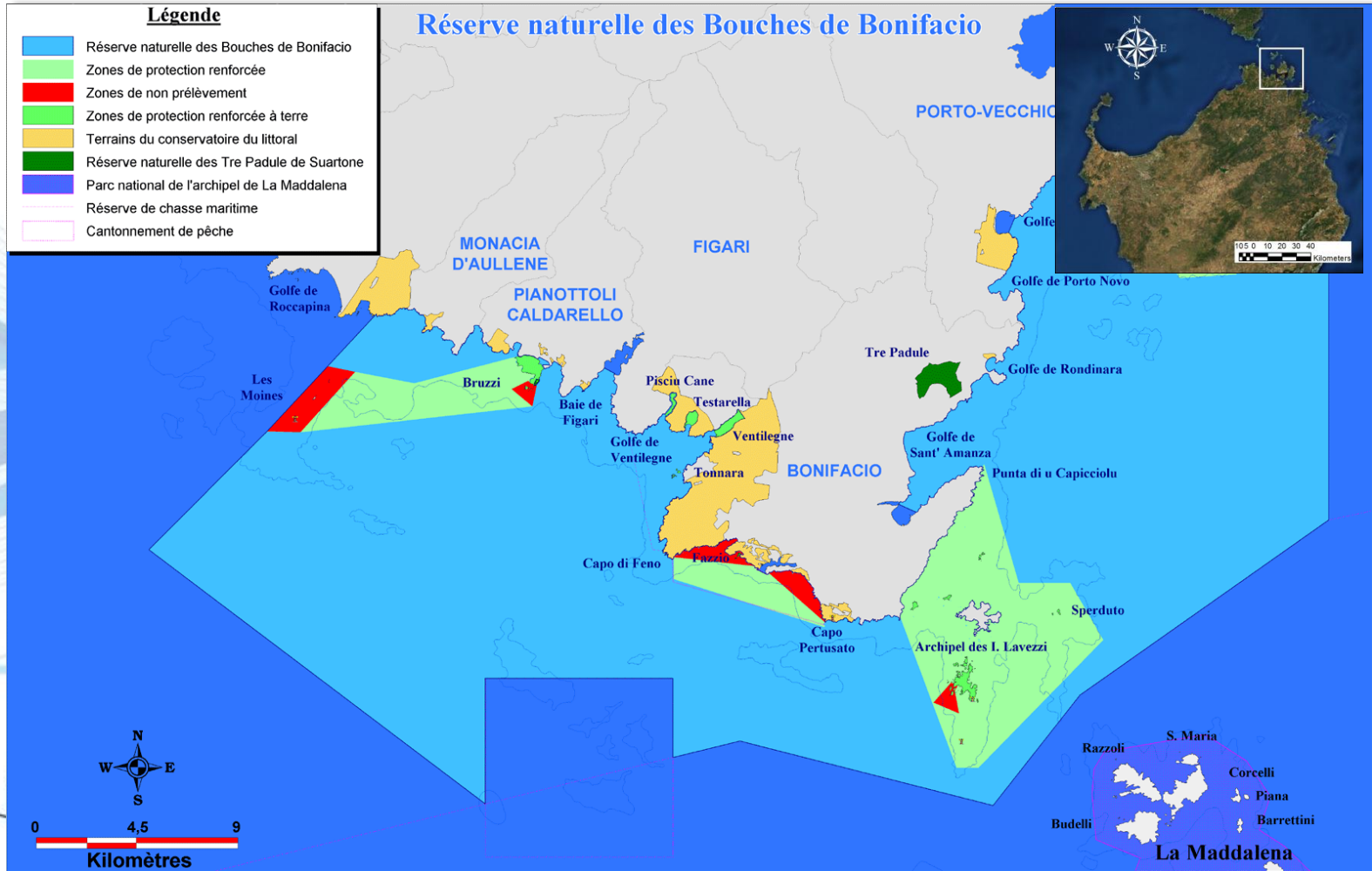
**Preparatory mission for the EGCT-PMIBB
Corsican Environment Office, Fr**



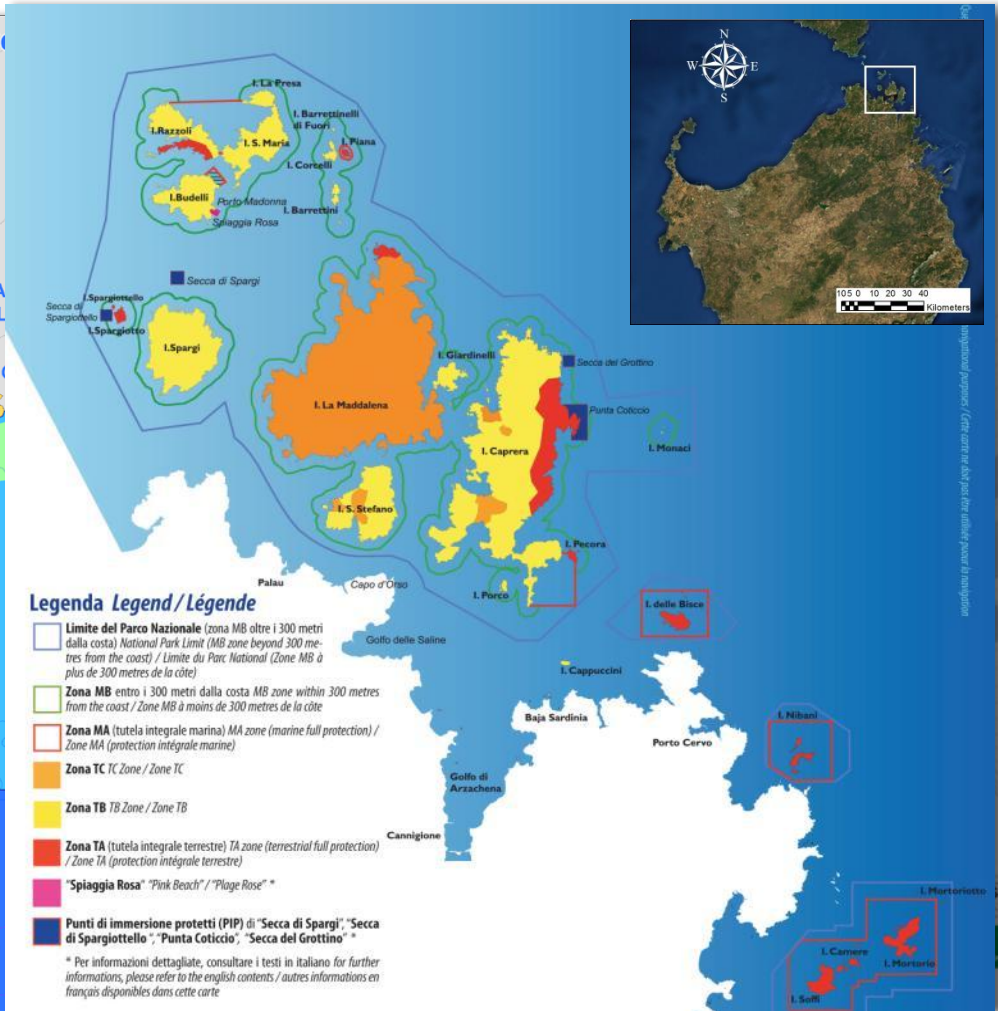
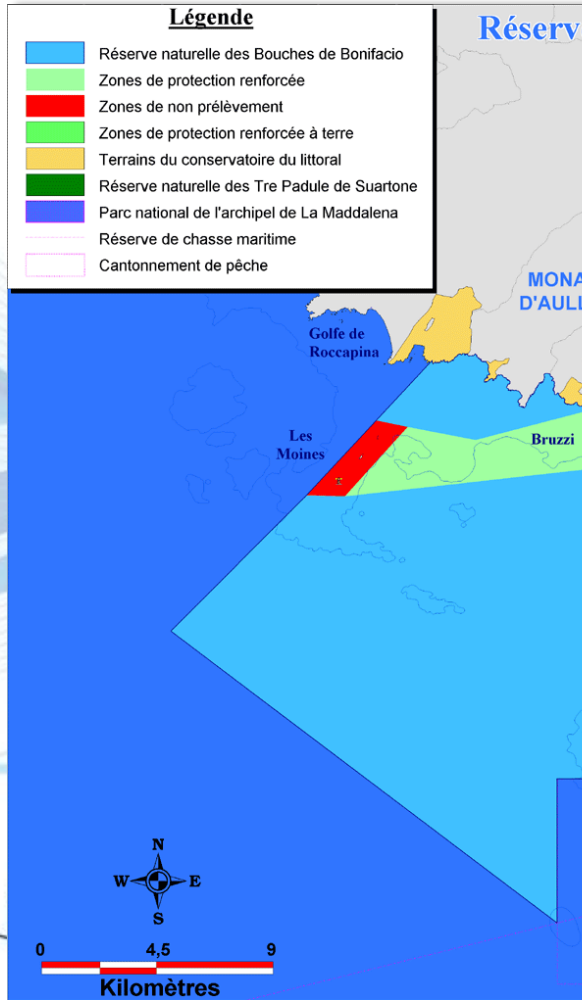


-  Adoption by the French and Italian governments of the Memorandum of Understanding for the creation of an international marine park between Corsica and Sardinia
-  Creation of the National Park of Maddalena Arcipelago
-  Creation of the Nature Reserve of the Strait of Bonifacio
-  Prohibition of transit of French and Italian oil tankers; implementation of a Franco-Italian system of regulation of maritime traffic (IMO)
-  Signature of the statement of intent to create the International Marine Park of the Strait of Bonifacio (PMIBB) in Palau (Sardinia) by the French and Italian ministers for the Environment
-  Funding of the project of International Marine Park in the framework of the Maritime OP France-Italy 2007-2013
-  Creation of the mission of prefiguration of the EGTC-PMIBB by the Corsican Environment Office
-  On going designation of the Strait as a Particularly Sensitive Sea Area by the IMO

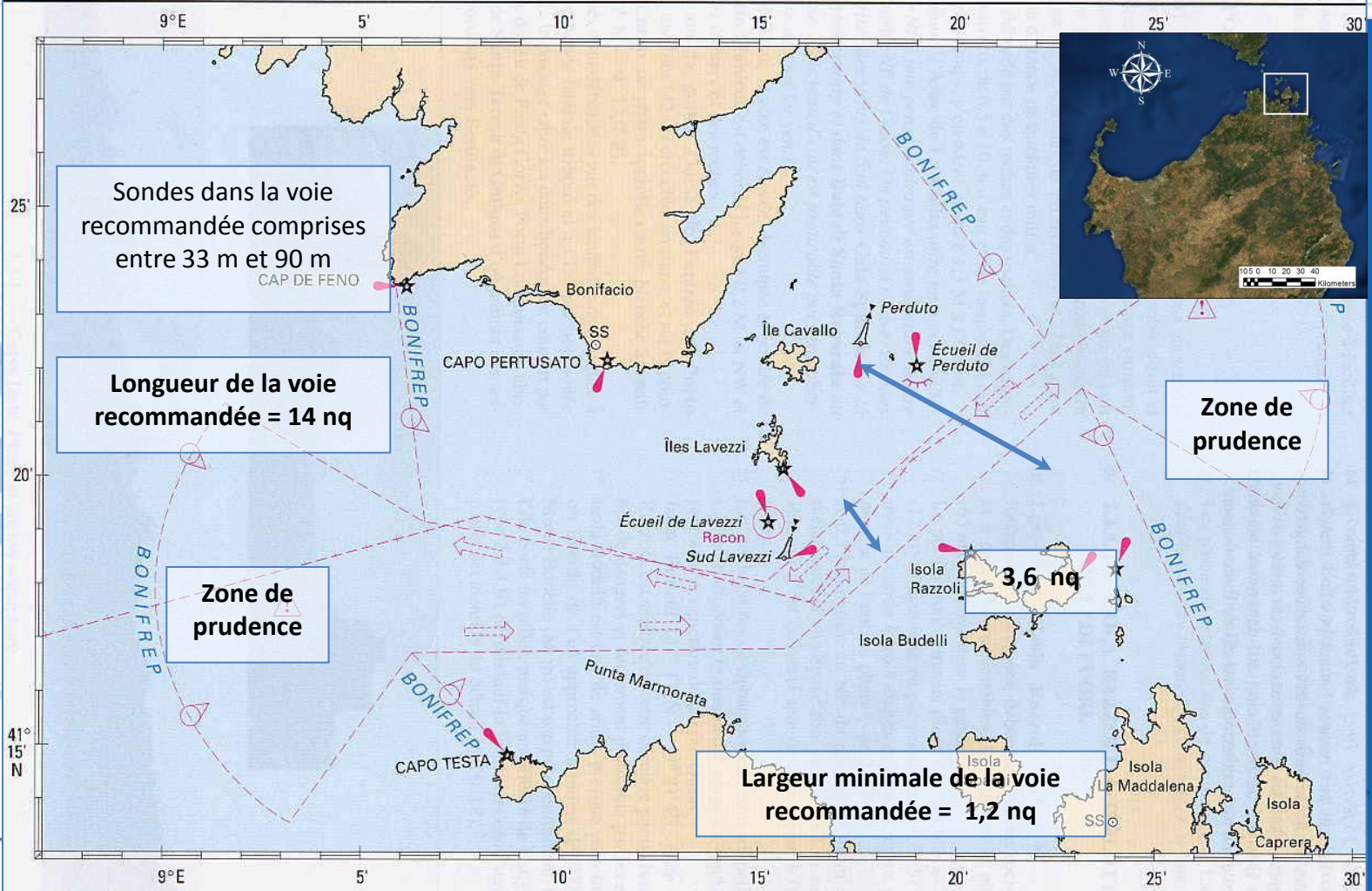
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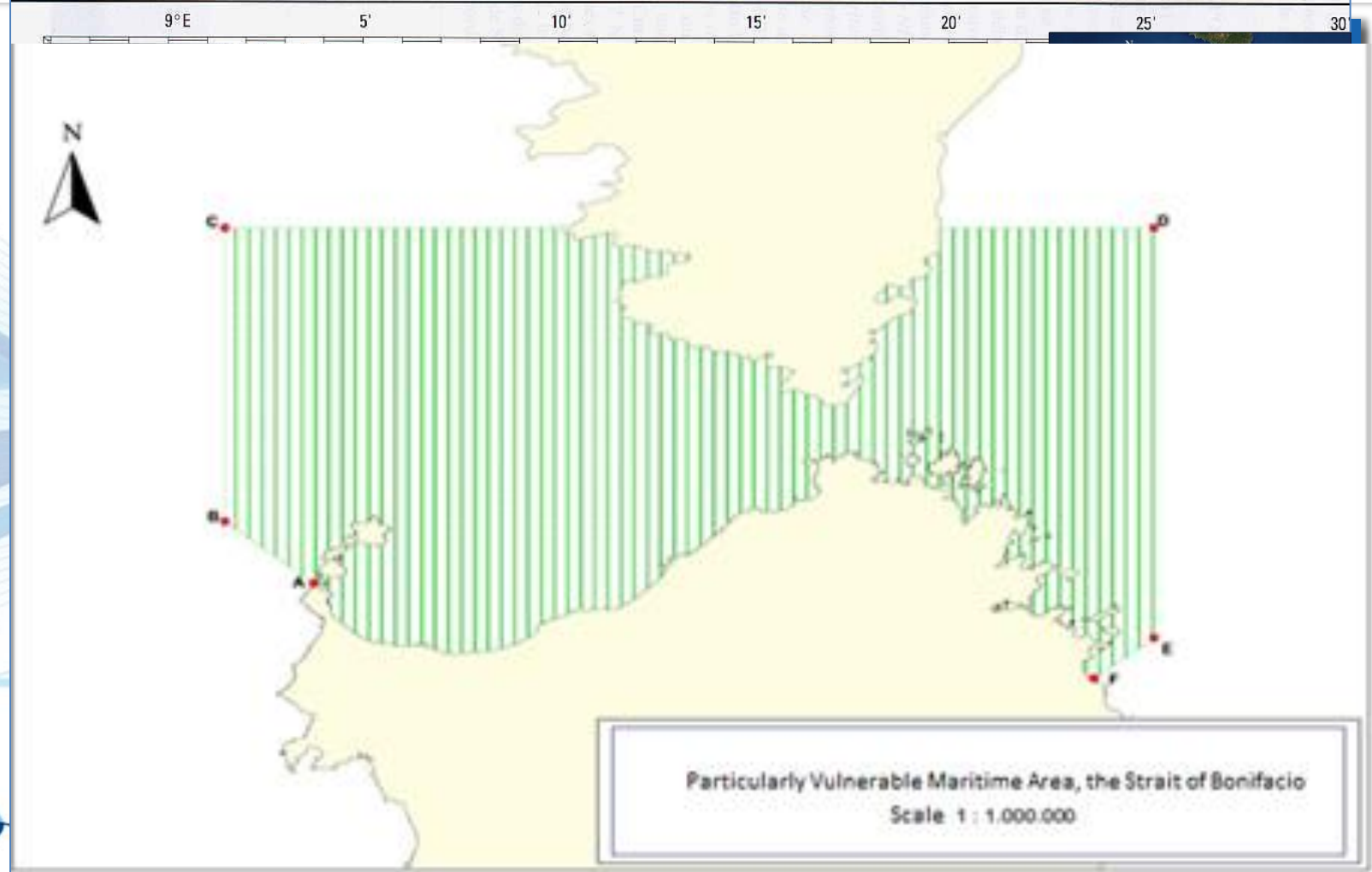
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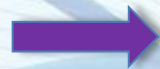




Prefectural decision allowing the O.E.C. to become a member of an E.G.C.T. governed by Italian law



Decision by the Presidency of the Italian Council of Ministers allowing the P.N.A.L.M. to constitute the E.G.C.T.-P.M.I.B.B.



Signature in Bonifacio of the agreement and the articles establishing the E.G.C.T.-P.M.I.B.B. by the Presidents of the O.E.C. and the P.N.A.L.M.

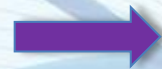




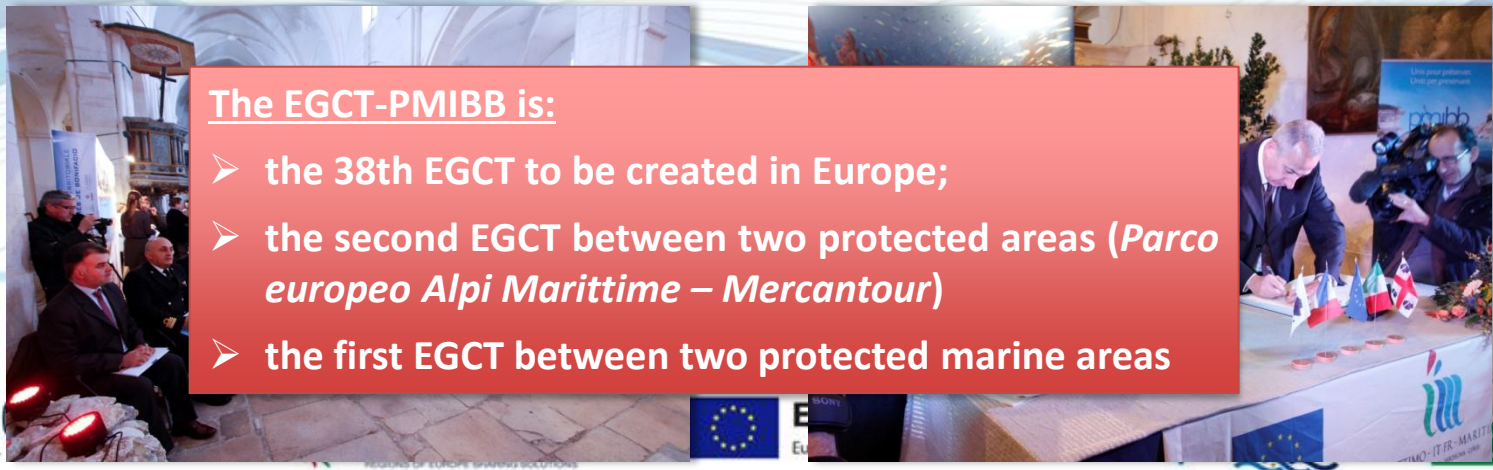
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The EGCT-PMIBB is:

- the 38th EGCT to be created in Europe;
- the second EGCT between two protected areas (*Parco europeo Alpi Marittime – Mercantour*)
- the first EGCT between two protected marine areas



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Delimitazione dell'ambito d'azione del G.E.C.T. – P.M.I.B.B. / Delimitation of the E.G.T.C.-P.M.I.B.B. field of action



The main objective of the E.G.C.T. – P.M.I.B.B.

The article 5 of the International Convention signed by the Corsican Environment Office (OEC) and the National Park of Maddalena Arcipelago (PNALM) sets the main goal of the EGCT-PMIBB, which is to promote the protection, the management and the common promotion of natural and cultural resources of Bonifacio' strait, this in order to implement a common policy with regard to sustainable development and to set up a joint administrative system.





■ The mains assets of the EGCT-PMIBB are:

- From the ecological point of view, Bonifacio' strait can be now considered as a “morpho-functional entity”, able to support studies about some mechanisms which are at the basis of the exceptional biodiversity of this area and to improve understanding of complex processes, for instance those related to halieutic resources;
- From a management point of view, the EGCT-PMIBB will allow a more appropriate co-management fitting with the more large-scale issues of the strait, such as touristic flows and maritime traffic, which are difficult matters to manage individually. One of the main objectives of the EGCT-PMIBB will be **to reinforce the maritime safety** within this international strait;
- Another mid-long term goal of the EGCT-PMIBB will be the international recognition of the ecological specificity of Bonifacio' strait through the examination of a franco-italian application on the UNESCO world heritage list.

■ The PO Maritime project allowed for:

- The drafting of the agreement and the statutes of incorporation of the E.G.C.T.-P.M.I.B.B. (implementation of the legal instrument);
- the definition of the guidelines of the E.G.C.T.-P.M.I.B.B action plan;
- harmonisation of certain scientific monitoring deriving from the first management guidelines, (tourism flows, anchoring impacts, Caulerpe network and biodiversity transect).



Mercredi 4 janvier 19

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PO Maritime France-Italy 2007-2013

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Project: "P.M.I.B.B "

Leadership: Corsican
Environment Office (OEC)



Partner: National Park of
Maddalena Arcipelago (P.N.A.L.M.)



Length: 3 years (April 2010-May 2013)

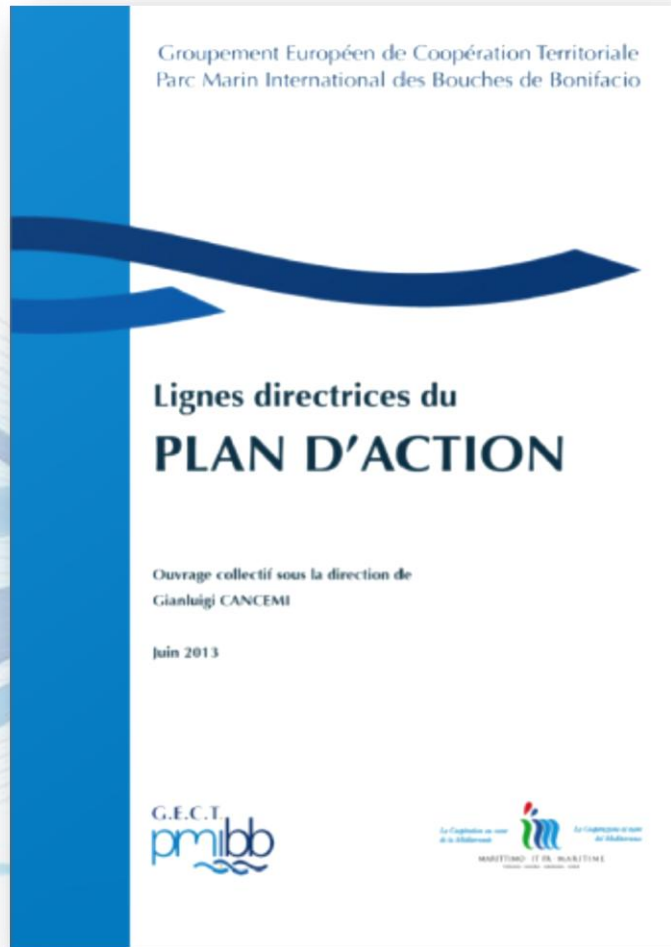
Total budget: 1,860,378 Euros



*La Cooperazione
al cuore del Mediterraneo*

*La Coopération
au cœur de la Méditerranée*

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➤ **June 2013:**

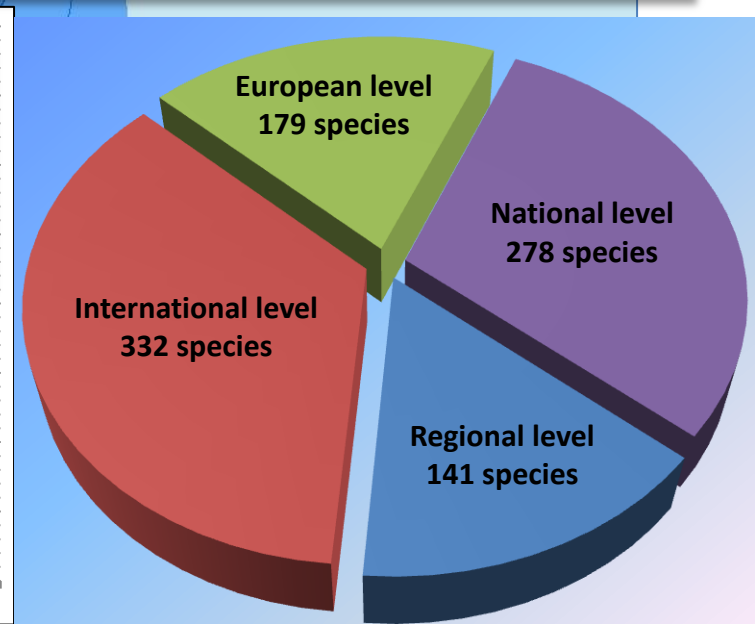
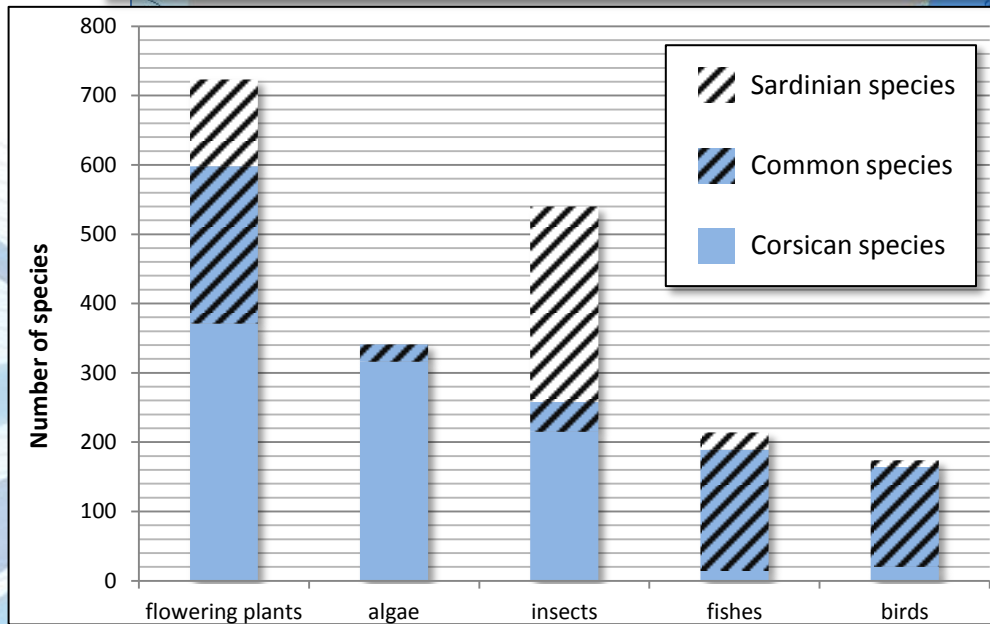
Creation of the EGCT-PMIBB action plan, (in the framework of the “PMIBB” project, maritime OP IT-FR 2007-2013) which defines the guidelines, that is the actions to be carried out mid-long term.

➤ **December 2013:**

Presentation of the EGCT-PMIBB action plan during the **Nature Reserve of the Strait of Bonifacio (OEC) scientific council** extended to other French and Italian scientific advisors.



The inventory of animal and plant species studied or notified within the protected areas of the EGCT-PMIBB



▲ A specie can be protected at different scales .

SARDEGNA

0 2,5 5 10 Km

ENTE PARCO NAZIONALE ARCipelago d'LA NARDULENA pmibb

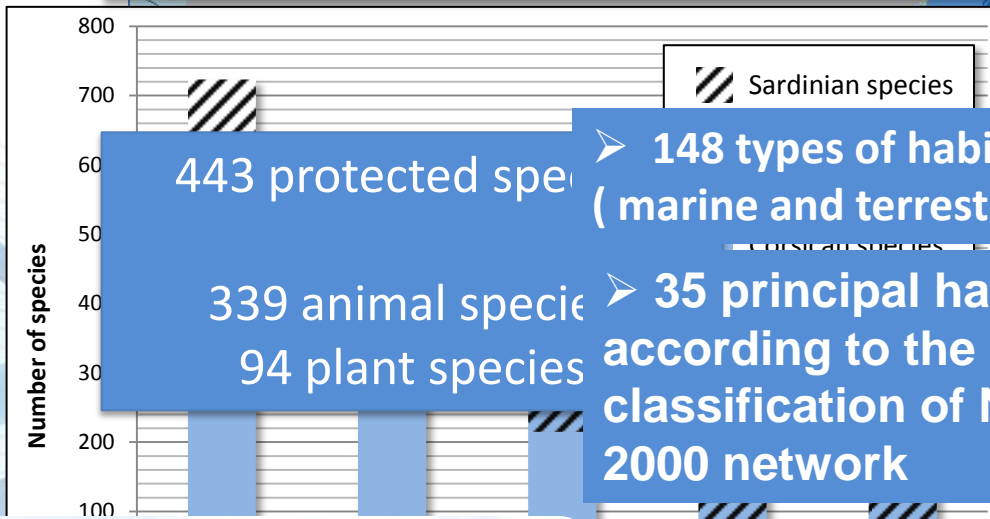
COLLETTIVA PER LA REGIONE CORSE CORSICA OEC

LENTI

CORSE CORSICA



The inventory of animal and plant species studied or notified within the protected areas of the EGCT-PMIBB



443 protected species

339 animal species
94 plant species

➤ 148 types of habitat
(marine and terrestrial)

➤ 35 principal habitats
according to the
classification of Natura
2000 network

~2 700 species:

1966 on corsican side and
1461 on sardinian side.

tional level

72 % of the species listed on
the database are distributed
on 5 taxonomic groups





Analysis of the management practices related to the most representative species of both protected areas



Parco Nazionale dell'Arcipelago
di La Maddalena

After several months of reflection and interactions
between the two teams, we have defined the priority
axes of the EGCT and its objectives at a mid-long
term.





The priority issues for the harmonization of the objectives and the management methods(short-mid term):

- Maritime trade on traffic within the Bonifacio' strait;
- Touristic flows:frequentation, pleasure activities, recreational fishing;
- Characterization of biodiversity at different levels, particularly at the functional level(processes);
- Professional fishing and halieutic resources;
- The rocky bottom marine communities(particularly depth coralligenous assemblages);
- Angiosperm sea beds;
- Coastal erosion(posidonia banks ...).





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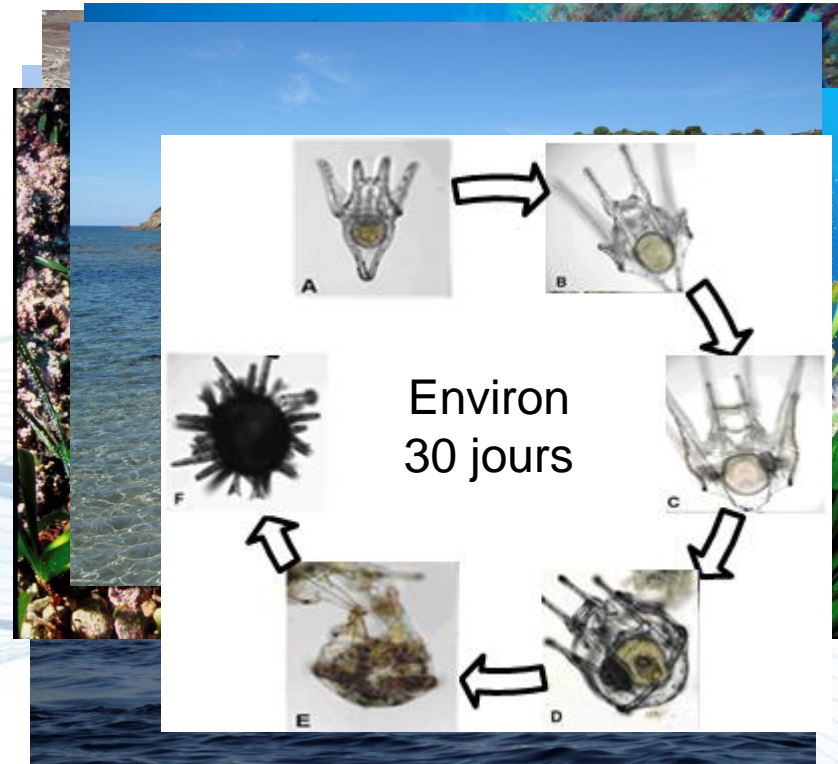
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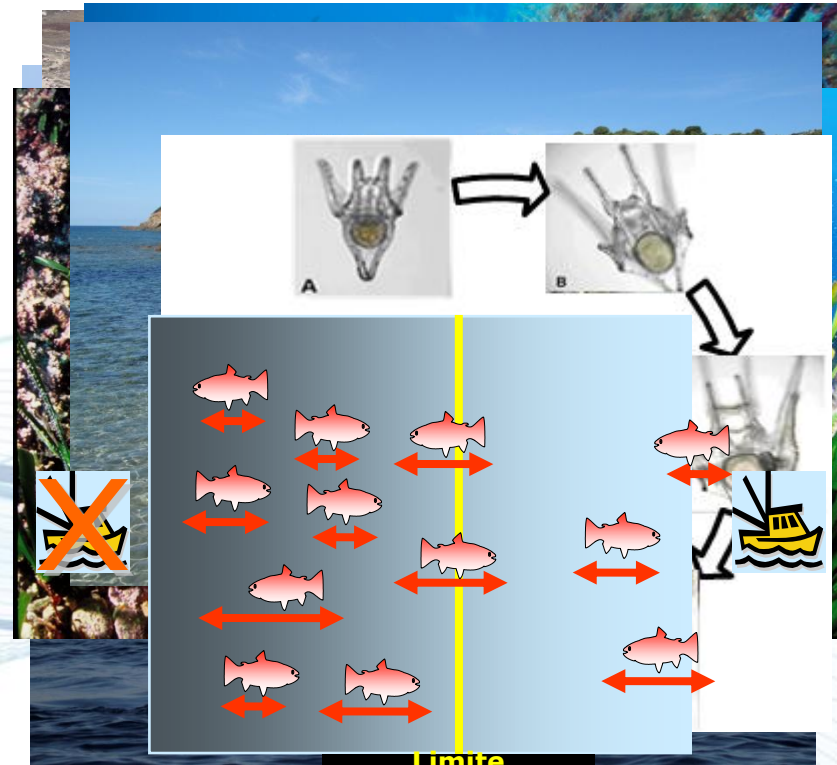
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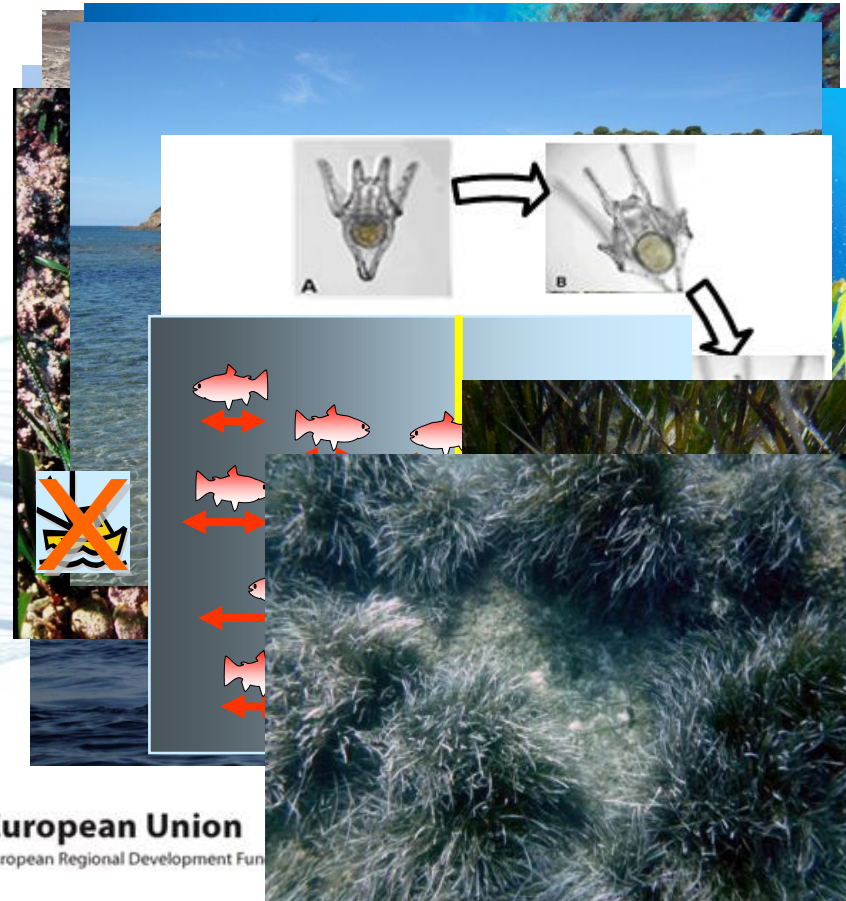
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A composite image featuring several elements: a diagram of a fish's head with arrows indicating movement (A and B); a diagram of fish swimming in a grid with red double-headed arrows; a photo of a rocky seabed with a crossed-out warning sign; a photo of a Posidonia bank; and a photo of a fish on a rock. Text at the bottom right includes "Lim", "Rése", and "intec".



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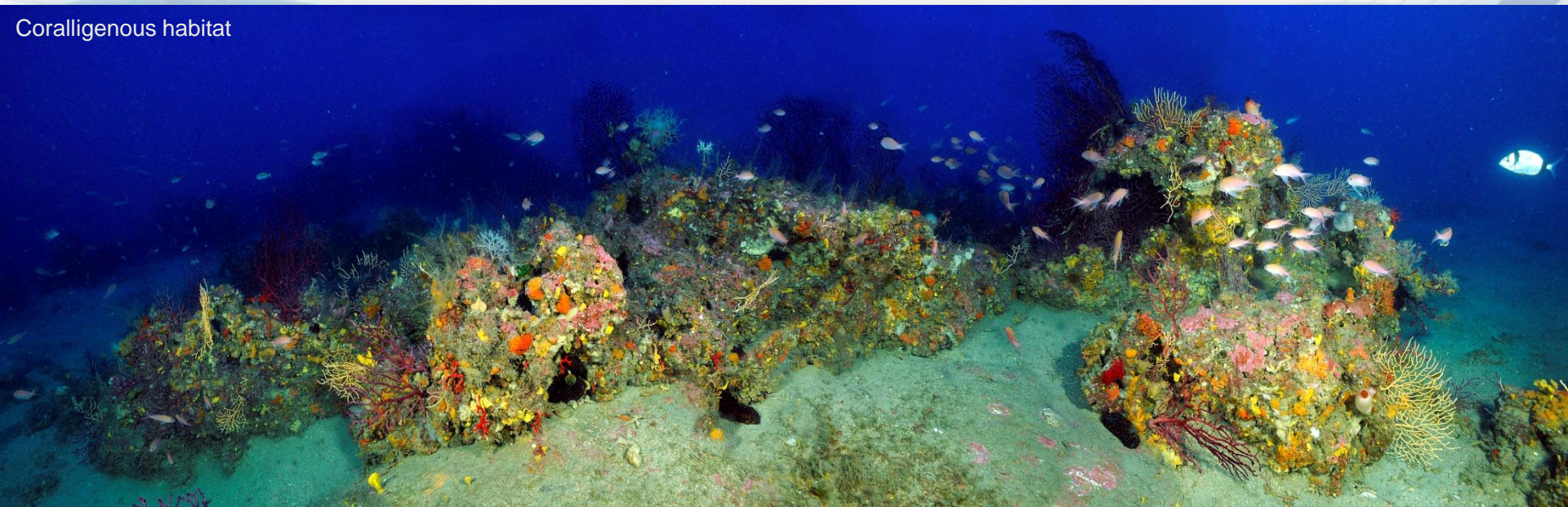


Coralligenous Inventory and cartography in the EGCT-PMIBB

ANDROMEDE STUDY, 2012-2014

- **Coralligenous:** blocks of organic concretions (coralline algae + bio-builders animals)
- Second Mediterranean benthic ecosystem in terms of biodiversity, habitats directive
- Potential indicator in monitoring the ecological quality of coastal water masses

Coralligenous habitat



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Coralligenous Inventory and cartography in the EGCT-PMIBB

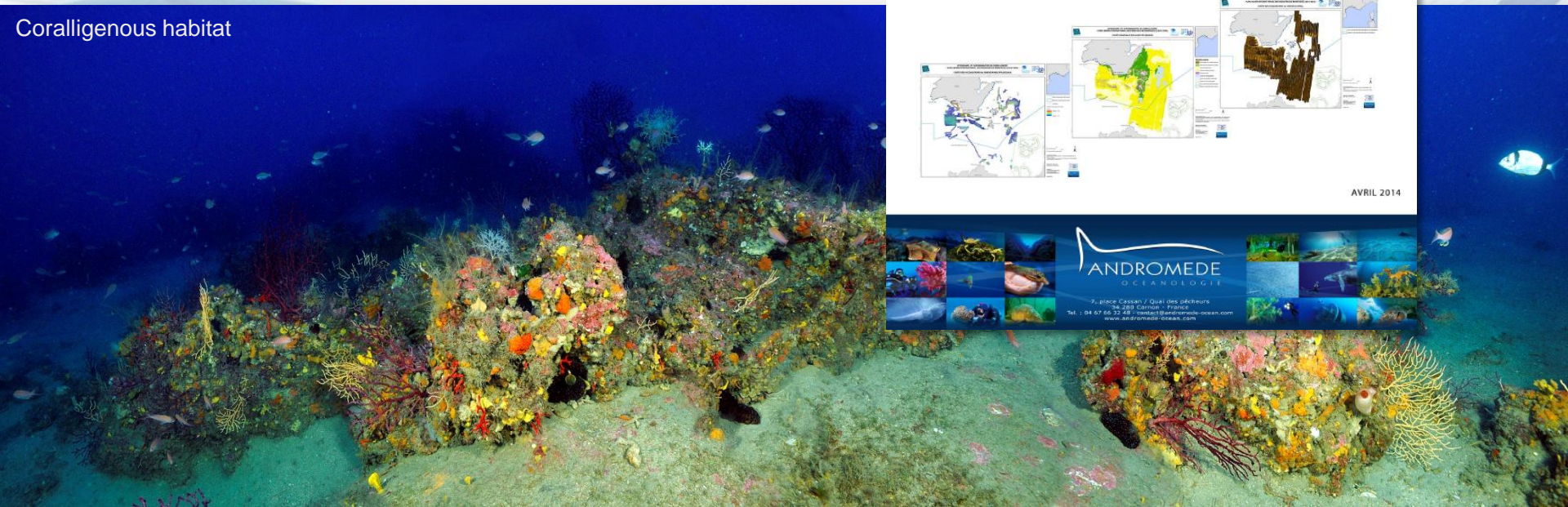
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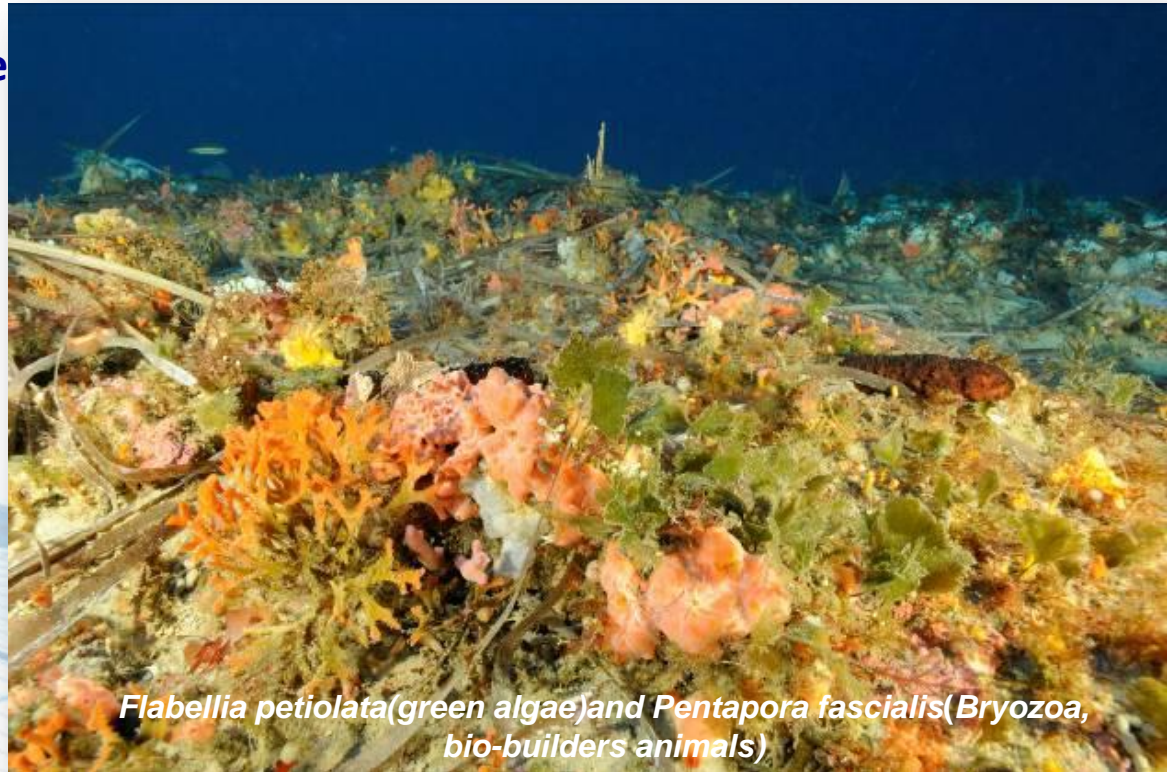
- **95 species inventoried and photographed**
- **Several Associations and Facies**
- **Some Protected species**



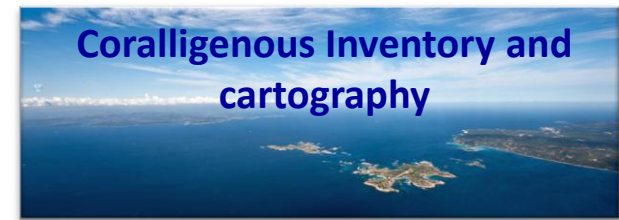
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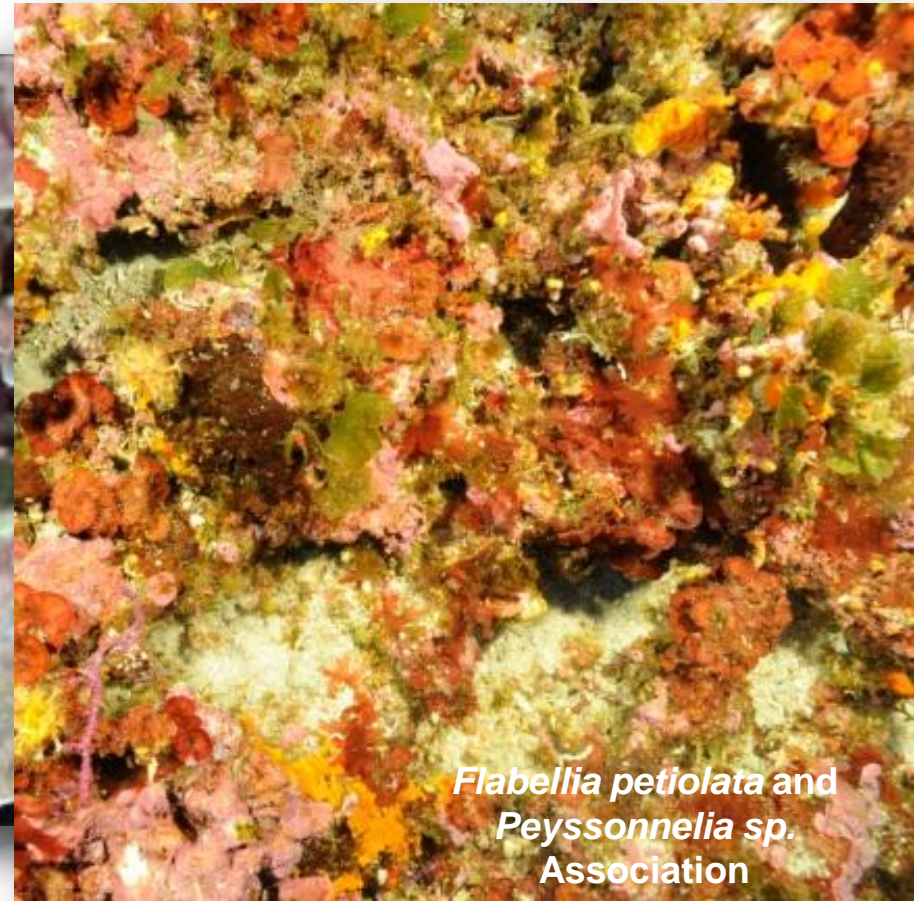


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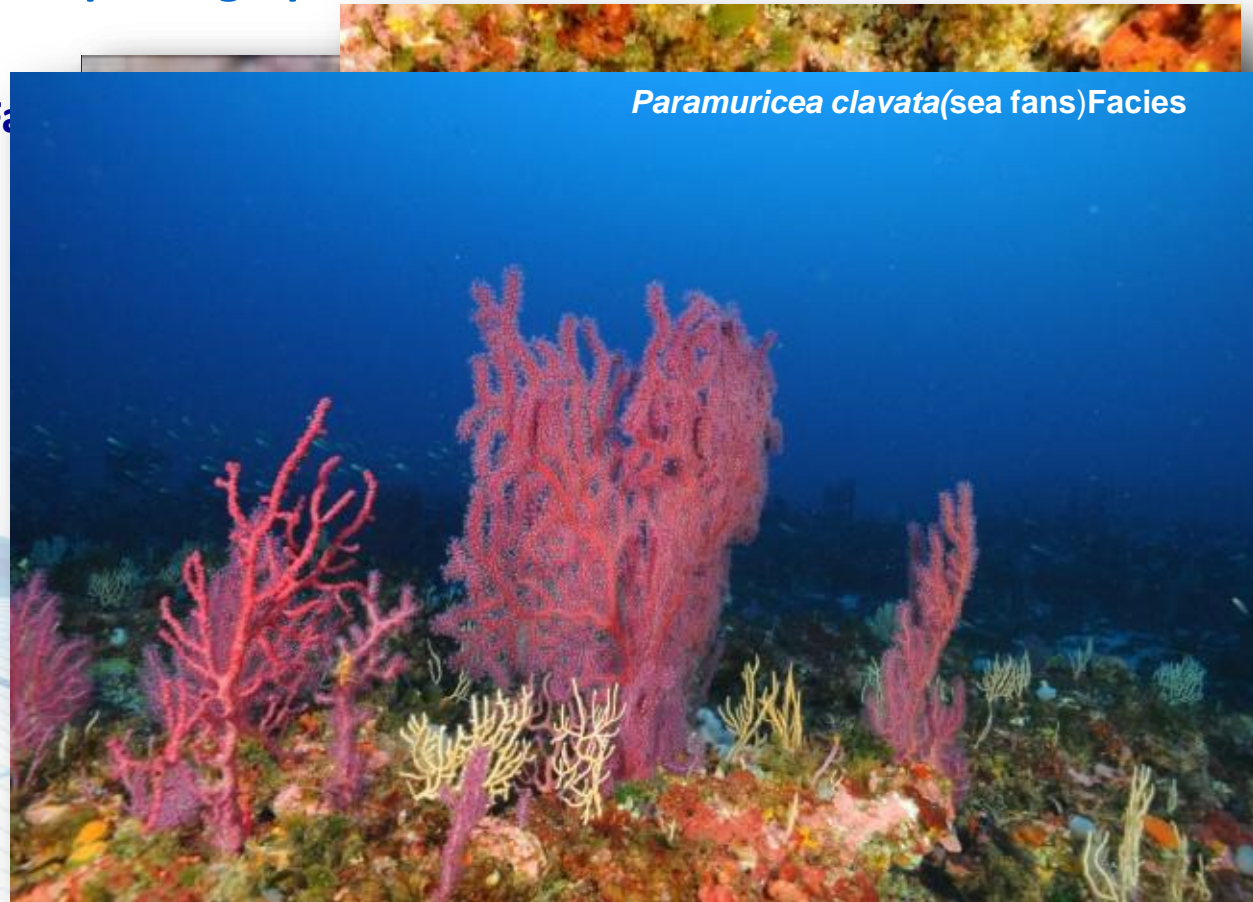


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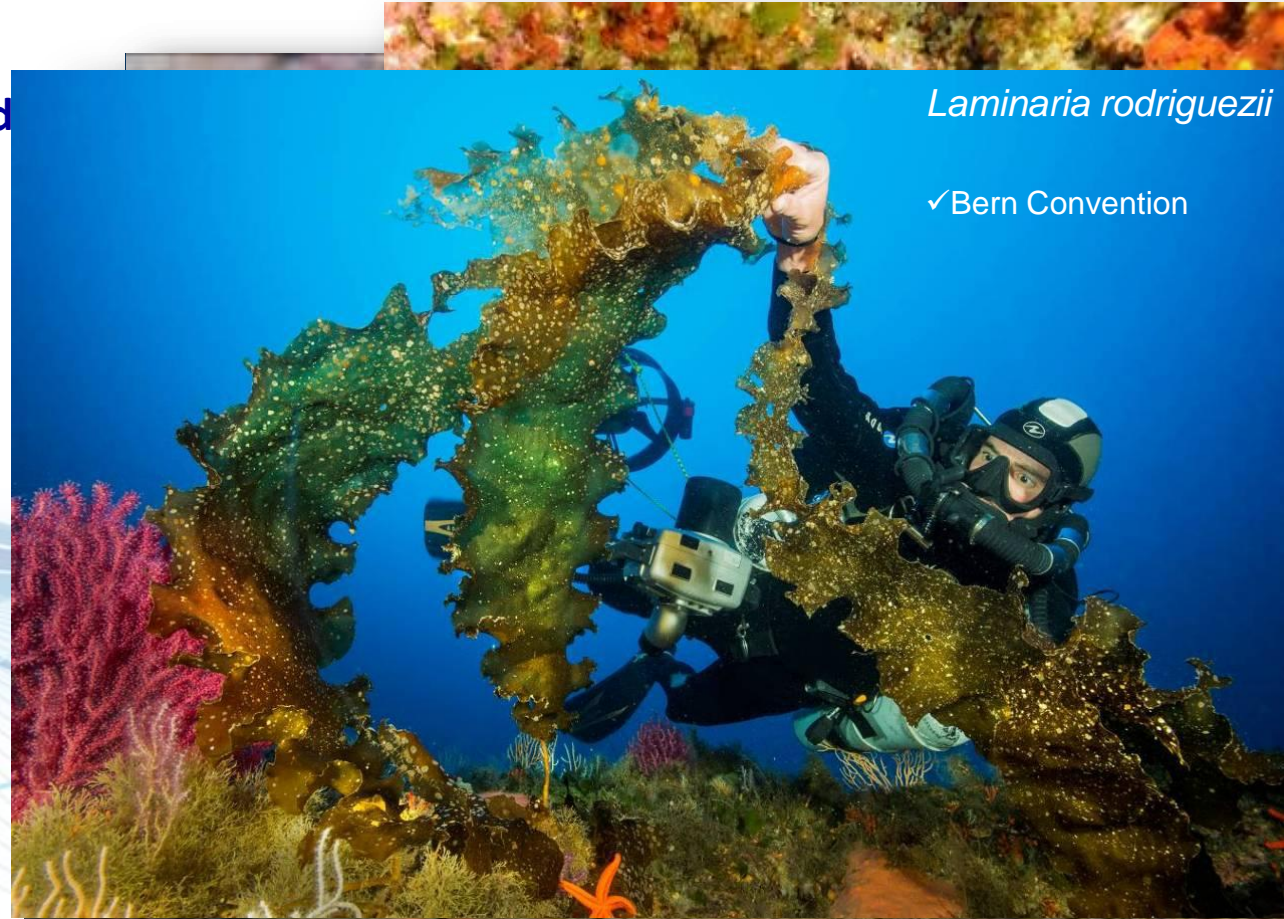
Axinella polypoides

- ✓ Bern Convention
- ✓ Barcelona Convention

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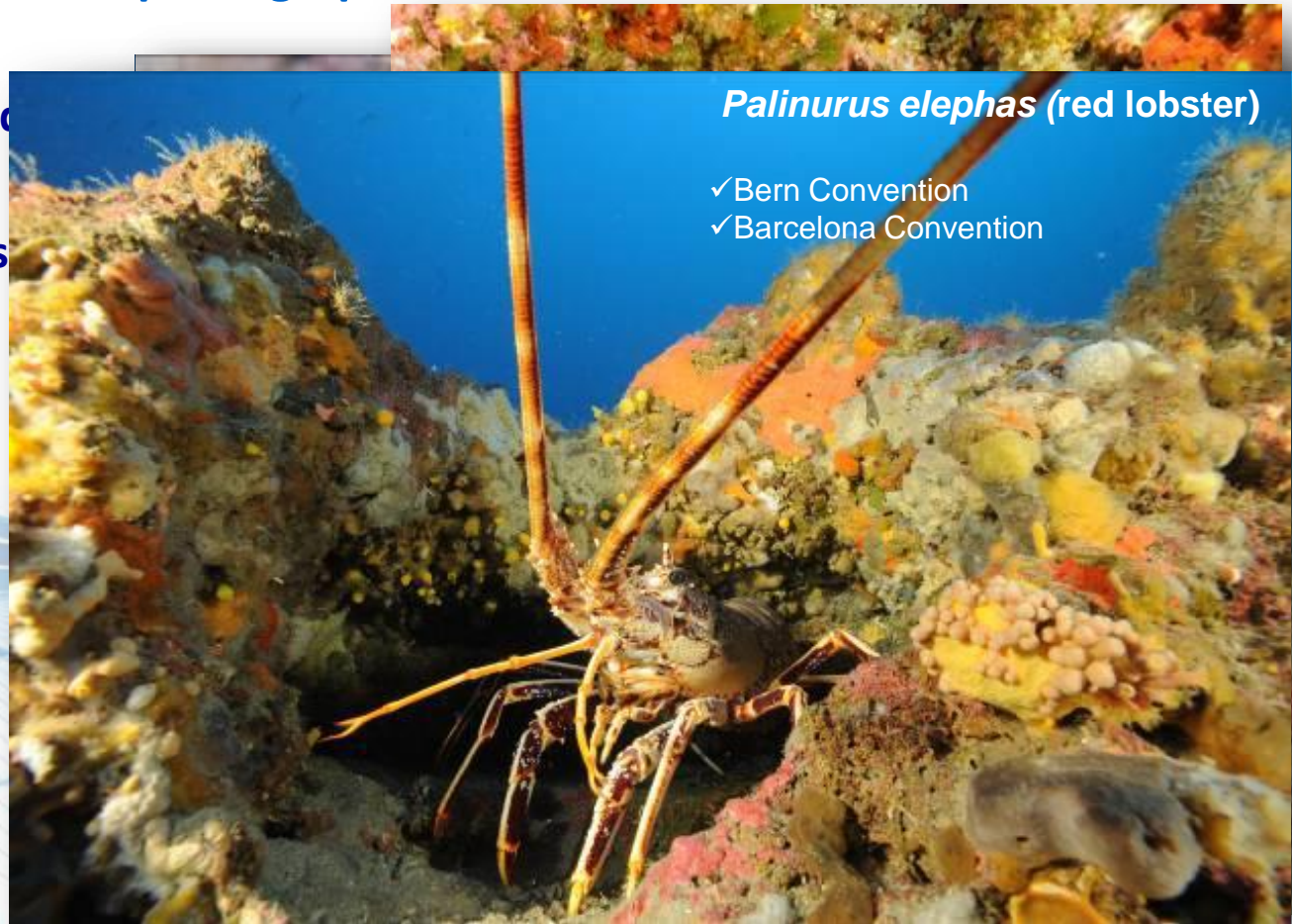


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Palinurus elephas (red lobster)

- ✓ Bern Convention
- ✓ Barcelona Convention



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Palinurus elephas (red lobster)

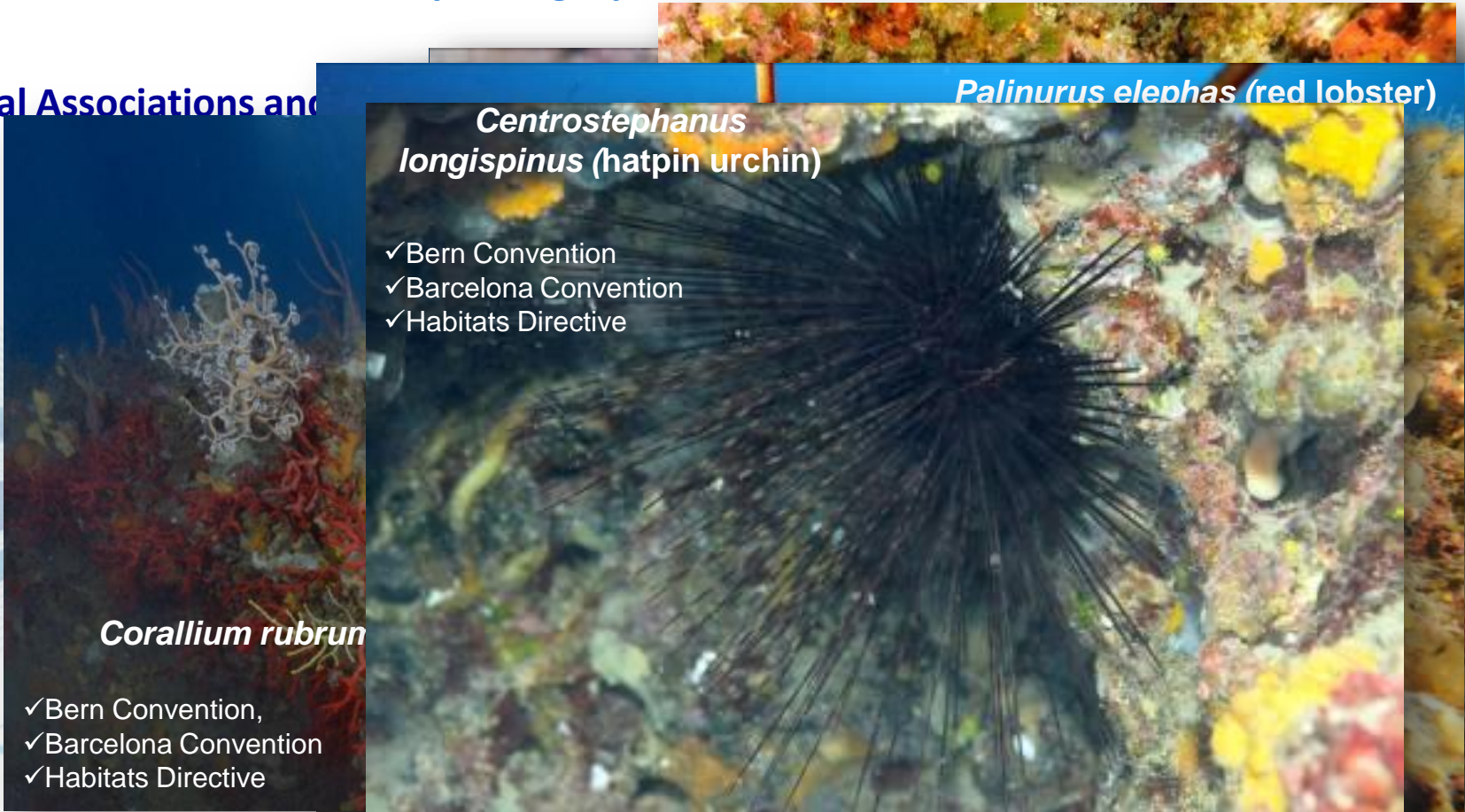


Corallium rubrum (red coral)

- ✓ Bern Convention,
- ✓ Barcelona Convention
- ✓ Habitats Directive



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Palinurus elephas (red lobster)

Centrostephanus longispinus (hatpin urchin)

- ✓ Bern Convention
- ✓ Barcelona Convention
- ✓ Habitats Directive

Corallium rubrum

- ✓ Bern Convention,
- ✓ Barcelona Convention
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Other thematic issues:

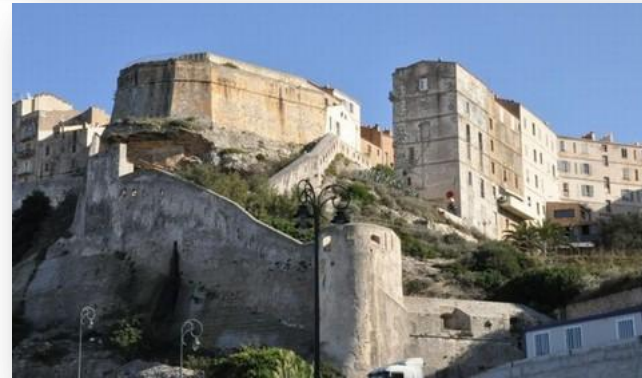
- Currentology and hydrodynamics modelling
- "Natural" developing fluctuations and trends
- Regulatory and management aspects of professional fishing activities
- Threatened species and endemisms
- Allochthonous and invasive species
- Birds (migrations, feeding and reproduction)
- Marine mammals
- Wetlands





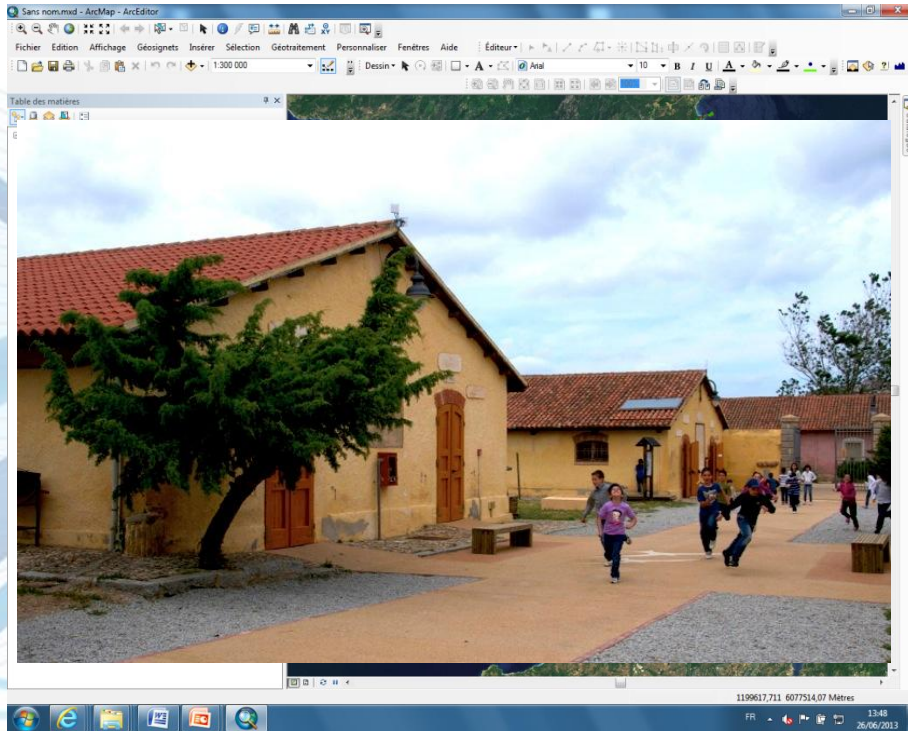
Identity, culture and socio-economy:

- Cultural tourism in order to highlight our common identity;
- Environmental education (common goals, exchanges between both territories);
- Traditional products (e.g. organic farming, artisanal fishing, concept of *zero km*);
- Sustainable mobility among the islands: carrying capacity of ecosystems, sustainable use of territories.





Tools to be implemented:



- **European programming and proposal of projects to universities and research laboratories**
- **Joint cartography and GIS**
- **Partnership with bodies from both States responsible for pollution risk assessments (interaction between the operating systems of the two coasts: POLMAR in France and the 2013 operative plan by the Italian Environment Minister)**
- **International reception and logistics centre in Stagnali (Caprera Island) for the organisation of training periods and lessons for university students and the provision of sea response means**

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Our work has been possible thanks to all these people:

Co-writers :

Bonnenfant O. (O.E.C.),
Brundu P. (P.N.A.L.M.),
Cancemi M. (O.E.C.),
Carli P. (O.E.C.),
Culioli J.M. (O.E.C.),
De Luca M. (P.N.A.L.M.),
De Solliers D. (O.E.C.),
Donno Y. (P.N.A.L.M.),
Gaio A. (P.N.A.L.M.),
Gauchon B. (O.E.C.),
Giordano P. (P.N.A.L.M.),
Laudato M. (O.E.C.),
Lippi E. (P.N.A.L.M.),
Pozzo di Borgo M.L. (O.E.C.),
Sorba V. (O.E.C.),
Urban G. (P.N.A.L.M.)

Scientific Referents:

Boudouresque C.F., Université Aix Marseille;
Cossu A., Università di Sassari;
Delaugerre M., Conservatoire du littoral(Corse);
Di Meglio A., Université de Corse;
Gazale V., Parco di Porto Conte (Sa);
Guidetti P., Université de Nice-Sophia Antipolis;
Harmelin J.G., Université Aix Marseille;
Paradis G., Université de Corse;
Pergent-Martini C., Université de Corse;
Pergent G., Université de Corse;
Terlizzi A., Università del Salento.

THANKS FOR YOUR ATTENTION