



INTERDISCIPLINARY SYMPOSIUM

GLOBAL CHANGE TRACK



5, 6, 7 July 2017 – Università di Corsica, Corti

Fédération Recherche Environnement & Société



FRES 3041

TRACK SUMMARY

Global Change in Insular Environment Action



Participants to Global Change track

35 Participants (Universities, research institutes, IUCN, UNEP-MAP-RAC/SPA, MEDPAN, CBC,...)

18 oral presentations

1 poster





TRACK SUMMARY

Objectives of Global Change track

➔ To bring together actors with specific competencies (biology, geology, economics, geography) to consider the implementation of a research program on carbon footprint at the level of Mediterranean islands.

First half day: On going programs and initiatives on Blue Carbon Ecosystems (BCE)

➔ Synthesis: Objectives and limits of a new program on BCE

Second half day: Scientific knowledge and lack of data

➔ Synthesis: Scientific objectives and method of investigation

Third half day: Mediterranean relevant sites to consider

➔ Synthesis: Workshop sites and strategy to set up

TRACK SUMMARY

1 - On going programs and initiatives on Blue Carbon Ecosystems

Keynote speaker: Dan Laffoley (Marine Vice Chair for the World Commission on Protected Areas – IUCN) → The International Blue Carbon Initiative

Global Distribution of Blue Carbon Ecosystems



TRACK SUMMARY

1 - On going programs and initiatives on Blue Carbon Ecosystems

➔ LIFE BLUE NATURA: More funds for conservation and restoration of blue carbon coastal habitats



LIFE BLUE NATURA

FIRST: IMPROVING CARTOGRAPHY AND BLUE CARBON HABITAT CHARACTERIZATION, IN ORDER TO IMPROVE RESOLUTION ON THEIR EXTENSION, ESTIMATE POTENTIAL AREA AND TEMPORAL TENDENCIES 2015-2017

LIFE BLUE NATURA (LIFE2014/EC/M/155009/ES) **El Carbono Azul en Andalucía**
La importancia de las acciones para atender los objetivos de mitigación del cambio climático.
www.life-bluenatura.es
facebook.com/lifeprogram/trackblue@bluenatura



JORNADA DE VOLUNTARIADO **POSIMED ANDALUCÍA 2016**
8 y 9 de Octubre. Roquetas de mar - Aguadulce (Almería)
Inicio de la campaña Posimed Andalucía 2016: la red de seguimiento del estado de conservación de Posidonia oceánica en Andalucía, en la que participan buceadores voluntarios.



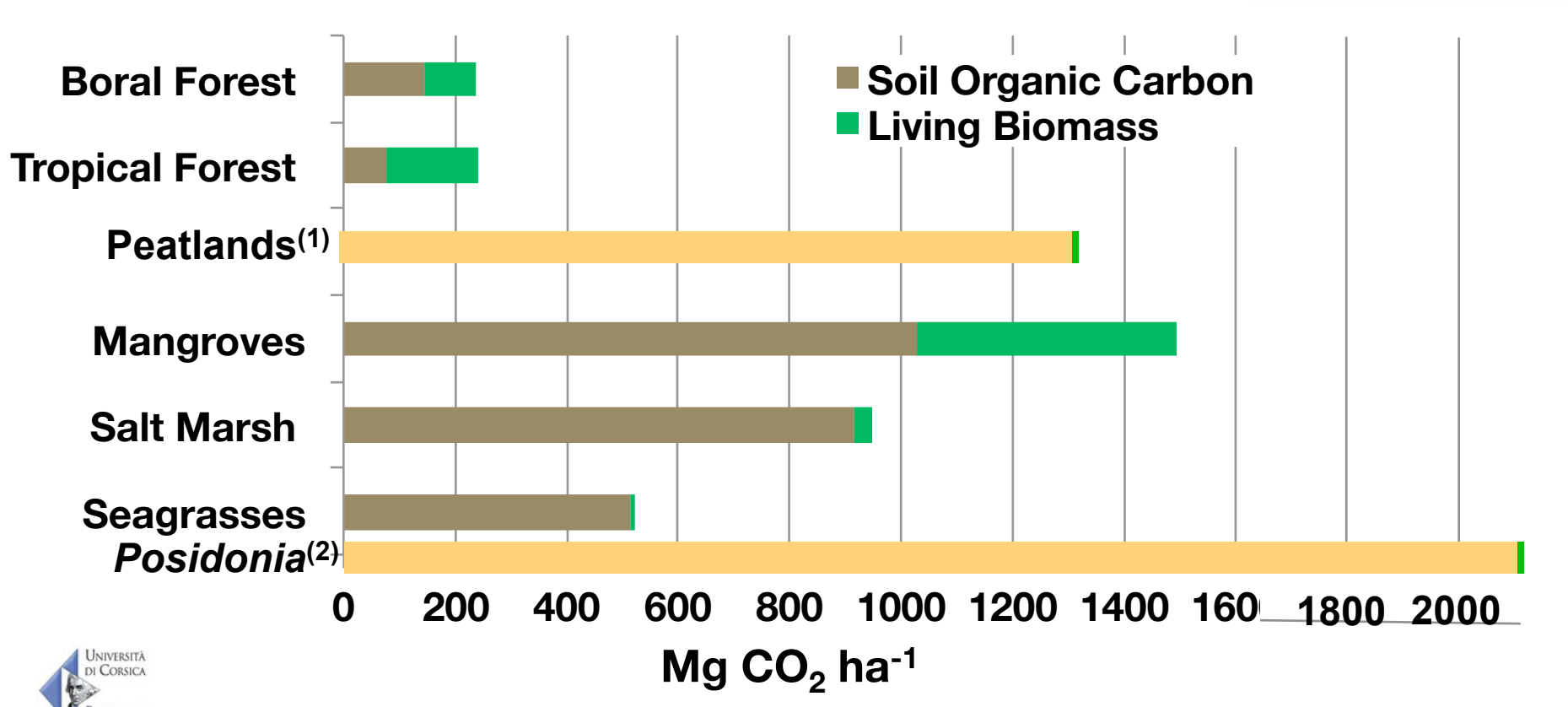
Información en:
www.life-bluenatura.es
info@life-bluenatura.es

Logos of partners: LIFE, CSIC, H+T, AQUA, ALCA, DELSOL, AKATI, AQUA, AQUA, AQUA.

TRACK SUMMARY

1 - On going programs and initiatives on Blue Carbon Ecosystems

➔ PADDUC-CHANGE: Carbon sinks: an asset for Sustainable Development in Corsica in the face of the challenge of Climate Change



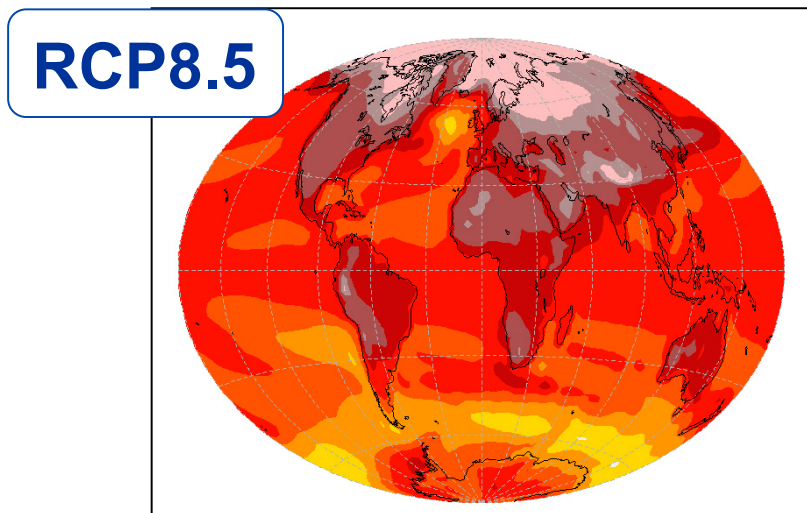
TRACK SUMMARY

2 - Scientific knowledge and lack of data

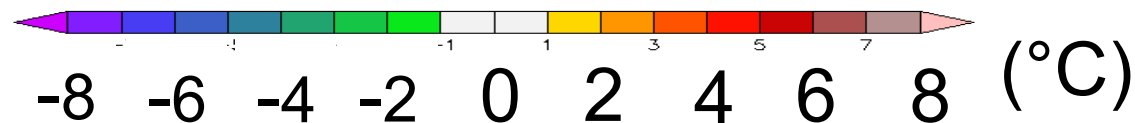
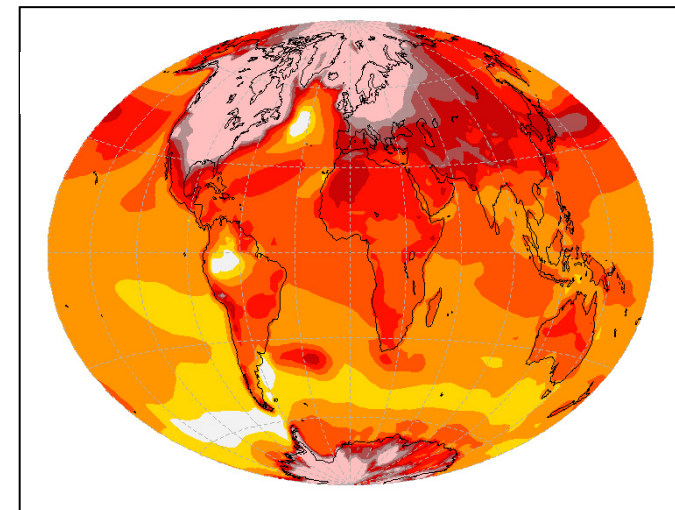
Keynote speaker: Hervé Le Treut (Director of the Pierre-Simon Laplace Institute and member of the Académie des sciences) → Climate Change and the Paris agreement

Evolution of earth temperature

Difference between
1990 and 2100



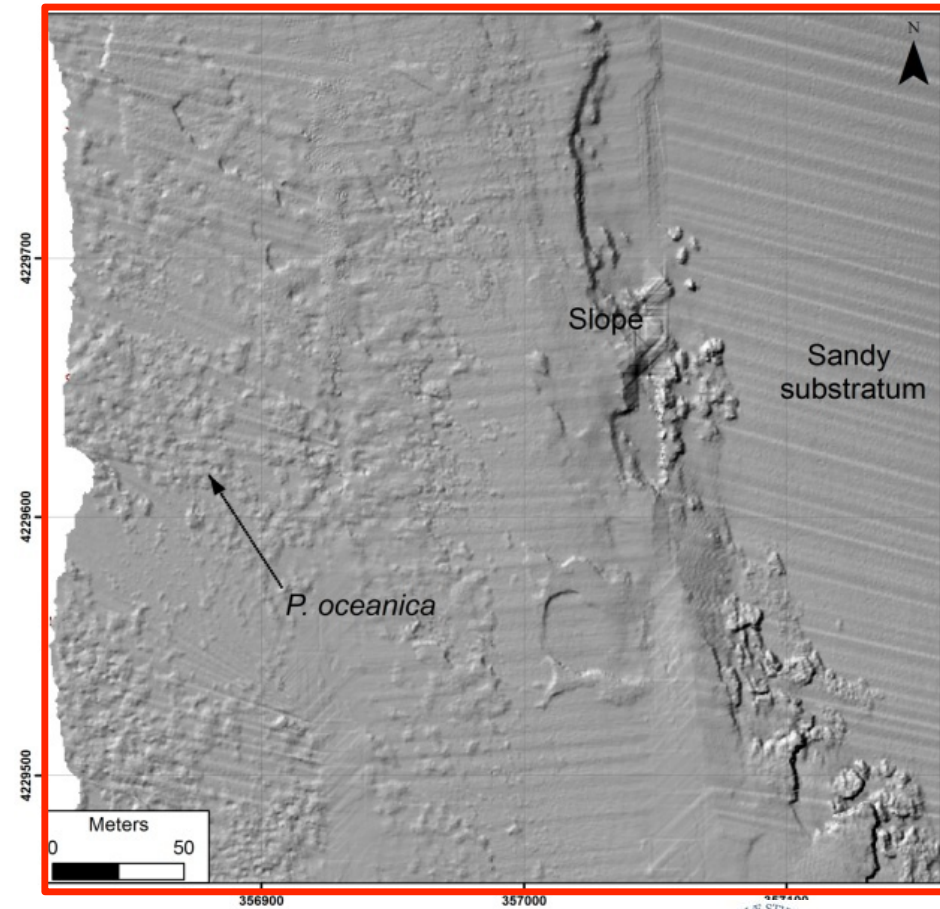
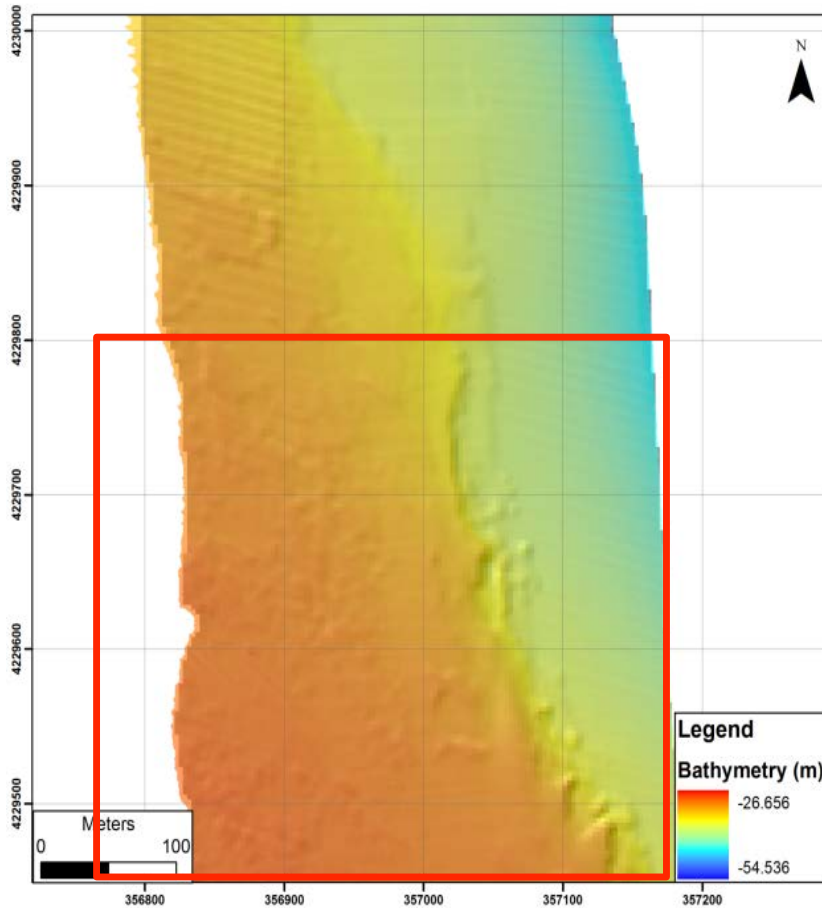
Difference between Ice period
and preindustrial period



TRACK SUMMARY

2 - Scientific knowledge and lack of data

➔ Combining high resolution sonar systems (SSS and MBS)



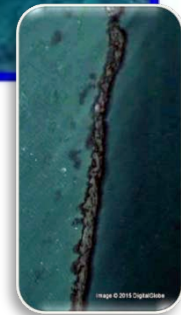
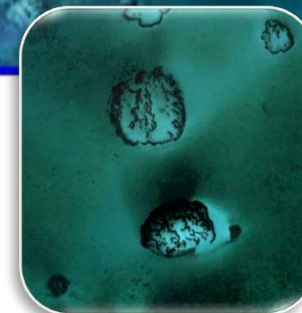
TRACK SUMMARY

3 – Mediterranean site to consider and strategy

➔ Anthropised site in Sicily



➔ Pristine site in Tunisia



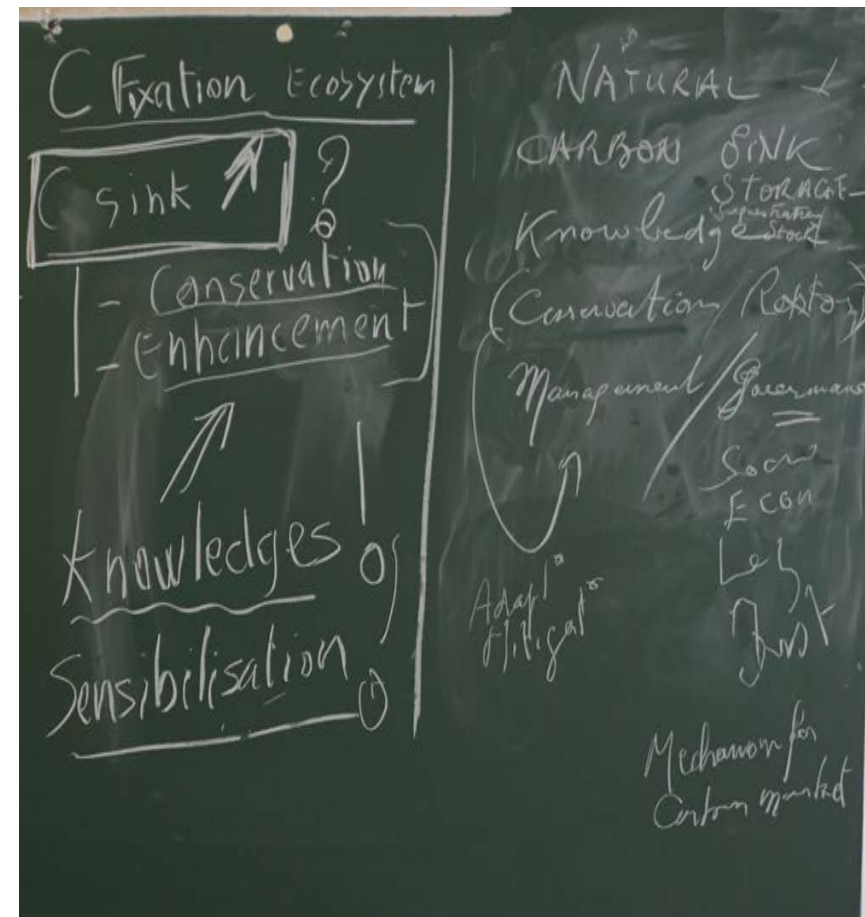
TRACK SUMMARY

Implementation of a research program on carbon footprint

Round table: Alain Jeudy de Grissac (International consultant in Marine environment)

→ Brain storming on the possible components for a project

**Natural Carbon Sink
Knowledge, Conservation,
Management and Governance**



TRACK SUMMARY

Context



COP21 Paris agreement 2015



→ 'Holding the increase in the global average temperature to well below 2 °C above pre-industrial levels'

① 'Parties noting the importance of ensuring the integrity of all ecosystems, including oceans'

② 'Parties should take action to conserve and enhance, as appropriate, sinks and reservoirs of greenhouse gases'

Strategies

Reduce GHG emission (Kyoto protocol)

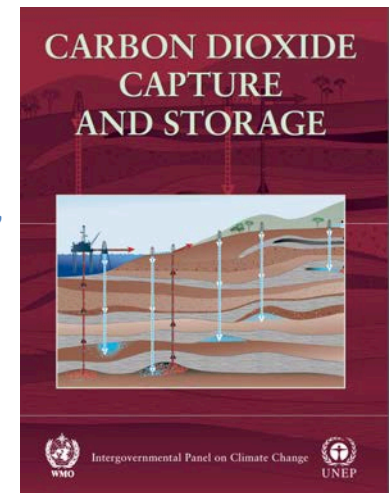
→ Low-carbon society

Emission decrease, low carbon and alternative energy, better insulation,...

Trap CO₂ emission

→ Industrial fixation
(concrete carbonation, microorganisms,...)

→ Natural fixation
(Vegetation)



Study, conserve and enhance natural carbon sinks



TRACK SUMMARY

3 – Mediterranean site to consider and strategy

Geographical scope: The choice of the scale: Mediterranean, sub regional, islands,...

Biological scope: Marine and coastal (watershed). For marine: seagrasses, carbonated formations. For coastal: wetlands, rivers, peatlands, lakes and vegetation cover

Scientific data available and gaps: Methodologies, standards, indicators . A review of the progress to date and of the needs for the future. Human threats

Carbon evaluation: Annual fixation, sink, increase and loss), standards (data), monitoring, ...

Governance: International, regional and national or sub-regional (legal and institutional elements)

Social and economic consequences of the carbon release in the atmosphere.

Management measures. The carbon pricing and the carbon market (official and voluntary).

Restoration projects: recover or maintain the carbon sinks

Capacity enhancement and exchange of experiences

Communication and awareness activities (multiple targets)

TRACK SUMMARY

A great consensus



Evidence of climat change

Speed rate of climat change





Thank you for your attention



Great thank to Johann Albertini & Julie Malleroni for organising the symposium