

29 novembre 2019
10h30 - 13h30
Conférence scientifique en anglais

Institut de botanique
163, rue Auguste Broussonnet
34000 MONTPELLIER

Challenges and opportunities in large-scale conservation

*Défis et opportunités de la conservation
de la biodiversité à grande échelle*



Découvrez le programme et les speakers
sur : <http://bit.ly/Cesab-Pelagic>



CESAB
CENTRE DE SYNTHÈSE ET D'ANALYSE
SUR LA BIODIVERSITÉ

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CESAB
CENTRE DE SYNTHÈSE ET D'ANALYSE
SUR LA BIODIVERSITÉ

Centre for the Synthesis and Analysis of Biodiversity

A place and some time for **Large scale biodiversity synthesis**



Nicolas Mouquet, CNRS, FRB

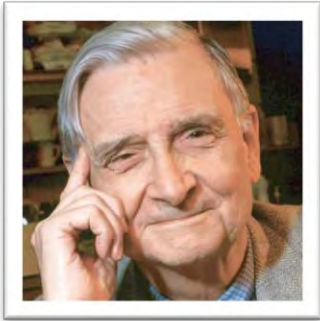
Membres
Fondateurs
de la FRB







The need for synthesis



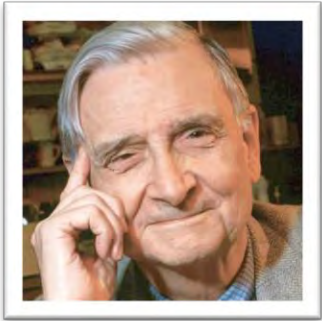
“ We are drowning in information while starving for wisdom ...

”

Edward O. Wilson (1998)
Consilience: The Unity of Knowledge



The need for synthesis



“ We are drowning in information while starving for wisdom ...

The world henceforth will be run by synthesizers, people able to put together the right information at the right time, think critically about it”

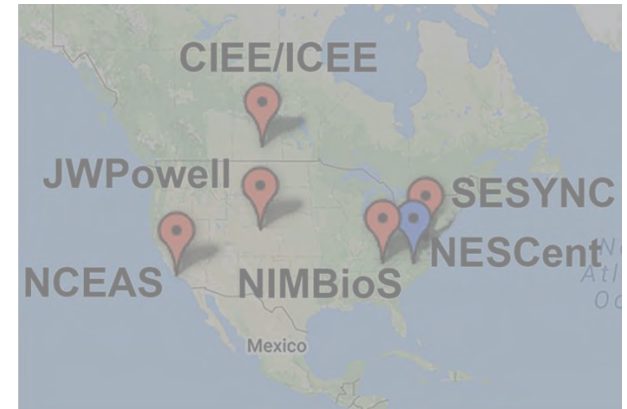
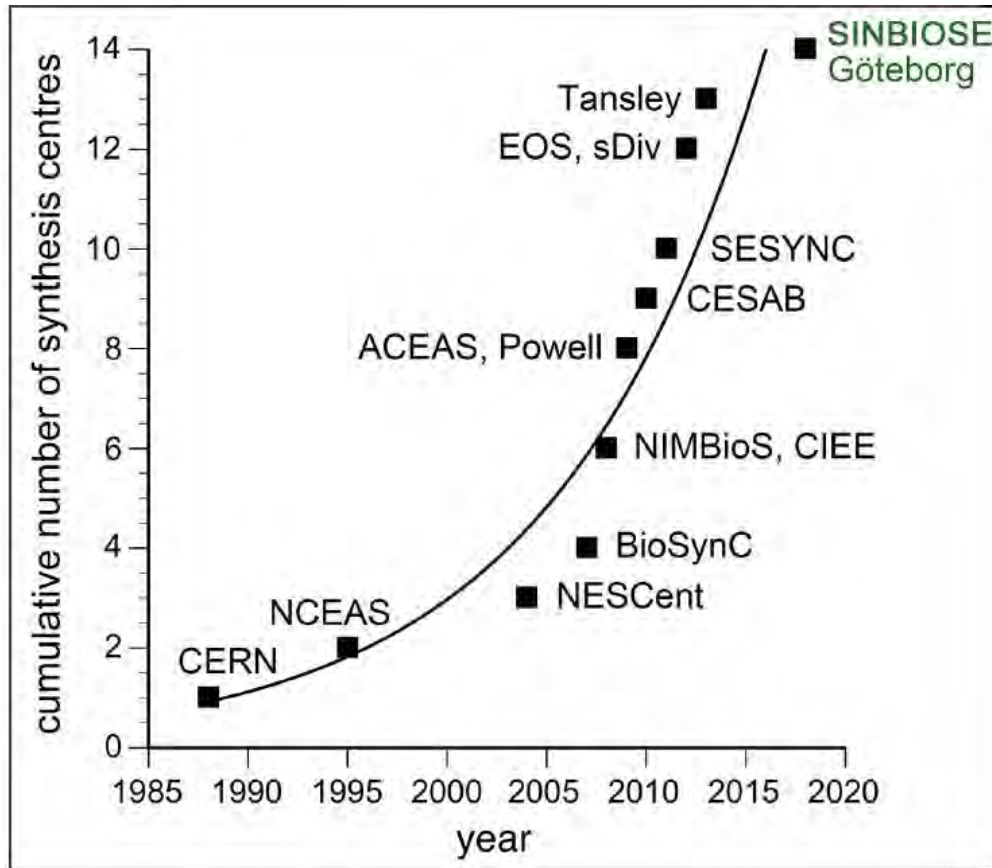
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Ecology and Environmental Sciences synthesis centers



CESAB : a place

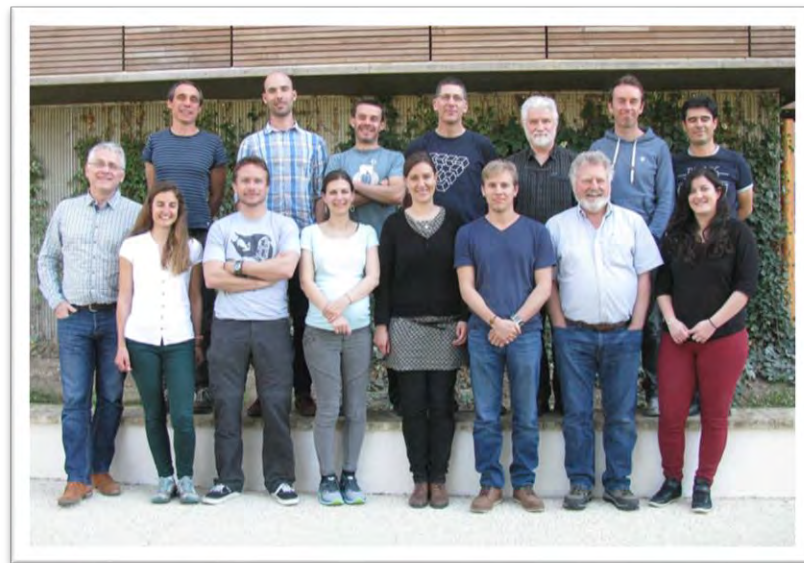


Institut Bouisson Bertrand, 5 rue de l'école de médecine, 34000, Montpellier

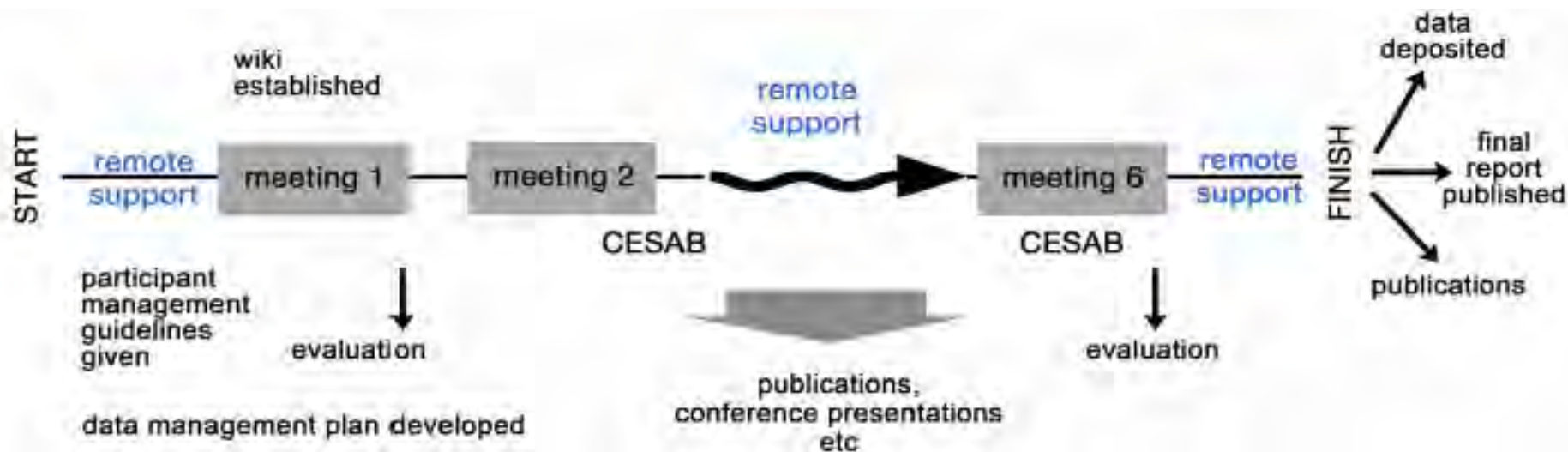
CESAB : synthesis groups

International call

- 10-15 members
- 2 x 1 week (3 years)
- 1 postdoc
- 250 K€



Un Groupe de synthèse



CESAB : ongoing groups



DiveRS : Evolution of breeding systems and plant species diversity.

FORCIS : Foraminifera Response to Climatic Stress.

JUSTCONSERVATION : Justice in biodiversity conservation.

SCORE_REEF : Spatio-temporal variability of coral reefs at the global scale.

PARSEC : Investigation of the socioeconomic impacts of protected areas.

CESAB : ongoing groups



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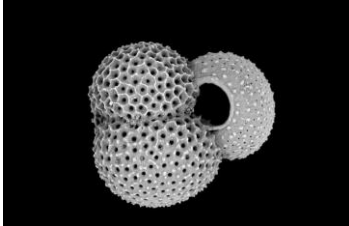
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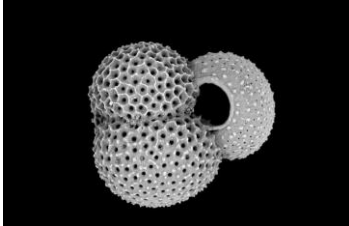
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PELAGIC group : Prioritizing ecologically significant and globally important marine conservation areas for vertebrates. David Mouillot and Tom Letessier

PROJET FINISHED IN 2017 - AFTER EN 2019

PELAGIC

Prioritizing ecologically significant and globally important marine conservation areas for vertebrates: synthesizing the best available knowledge to inform management and policy



Declines in marine predators intensified globally in the 1950's, as industrial fleets targeted previously inaccessible populations of sharks, tunas, and billfishes. These spatially extensive fisheries continue to expand, while global catches continue to decline.

Given the difficulty of managing these fisheries sustainably, large no-take Marine Protected Areas (MPAs) have been proposed for halting and reversing these declines. These MPAs require knowledge of the critical habitats that maintain these predators and that are relatively immune from the

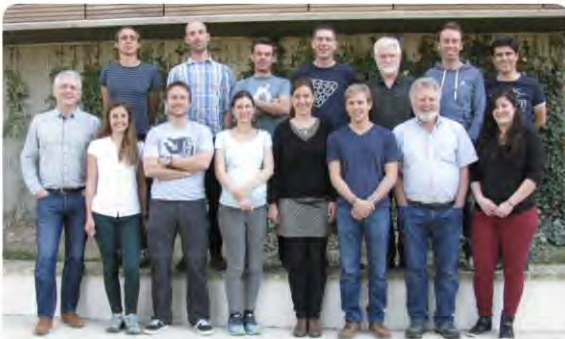
effects of human disturbances. This crucial knowledge is currently severely limited since based primarily on species geographic distributions obtained through fishery catches that remain biased with untargeted species, unfished areas and deliberate underreporting.

Here, *PELAGIC* planned to overcome this limitation by collecting the most up-to-date and complete information on the biogeography and habitat use of marine mammals, sharks and fishes.

Then *PELAGIC* experts evaluated the current performance of the global system of MPAs for all vertebrates and proposed some options to optimize the design of future MPAs to insure the long-term persistence of vertebrates in the oceans.

Pelagic in the media:

- *Press Release* (in French): Les monts sous-marins éloignés de l'Homme comme derniers refuges des prédateurs marins (August 2019)
- *Sciences et Avenir* (in French): Les requins fuient l'homme loin dans les océans (August 2019)
- *Science Daily* (in English): Industrial fishing being plummeting shark numbers (August 2019)



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MORE INFORMATION

PELAGIC brings together specialists in modelling, marine biology and biogeography.

PIs :

David MOUILLOT – University of Montpellier (France)

Postdoc :

Clara PERON – University of Montpellier (France)

Participants :

Helen BAILEY – University of Maryland (USA); Michael BODE – James Cook University (Australia); Phil BOUCHET – University of Western Australia (Australia); Dan COSTA – University of California (USA); François GUILHAUMON – IRD Montpellier (France); Pat HALPIN – Duke University Durham (USA); Kristin KASCHNER – University of Freiberg (Germany); Tom LETESSIER – Zoological Society of London (UK); Rebecca LEWISON – San Diego State University (USA); Jessica MEEUWIG – University of Western Australia (Australia); Valeriano PARRAVICINI – University of Perpignan (France); Laura POLLOCK – University of Grenoble-Alpes (France); Bob PRESSEY – James Cook University (Australia); Vincent RIDoux – University of la Rochelle (France); Len THOMAS – University of St Andrews Scotland (UK); Wilfried THUILLER – CNRS Grenoble (France); Laurent VIGLIOA – IRD New Caledonia (France); Rob WILLIAMS – University of St Andrews Scotland (UK).

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