



Suivre les prédateurs pour protéger les écosystèmes de l'océan Austral – un exemple de projet SCAR



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16^{èmes} JOURNEES
SCIENTIFIQUES

C N F R A
Comité National Français des Recherches
Arctiques et Antarctiques



Suivre les prédateurs pour protéger les écosystèmes de l'océan Austral – un exemple de projet SCAR

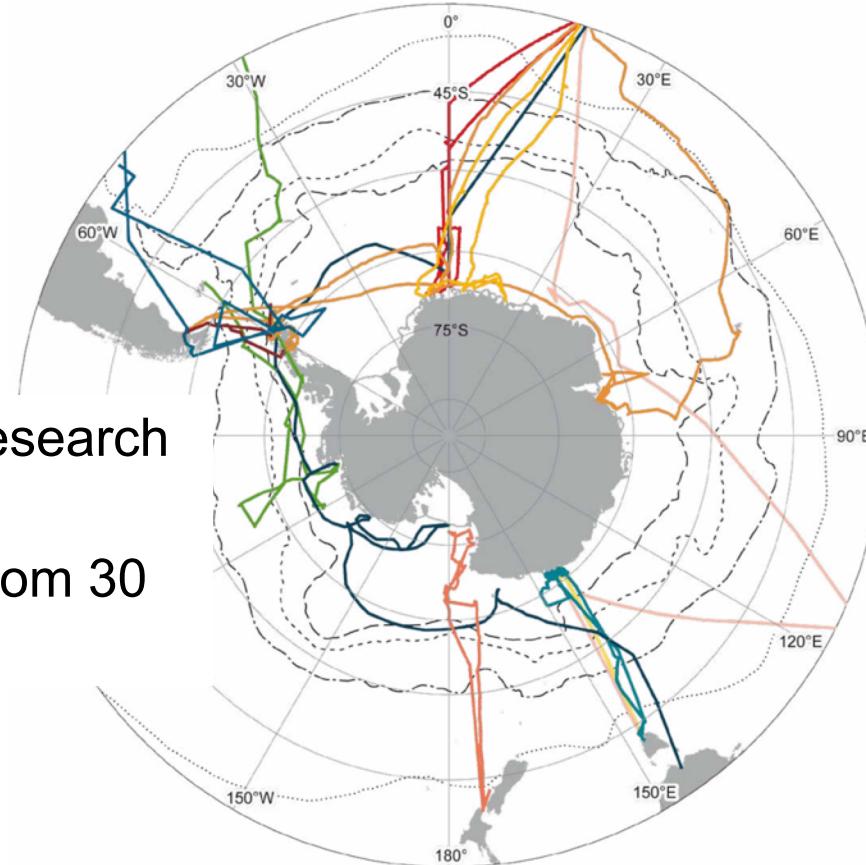




The Census of Antarctic Marine Life



2005-2010: 19 research
voyages
300 biologists from 30
countries



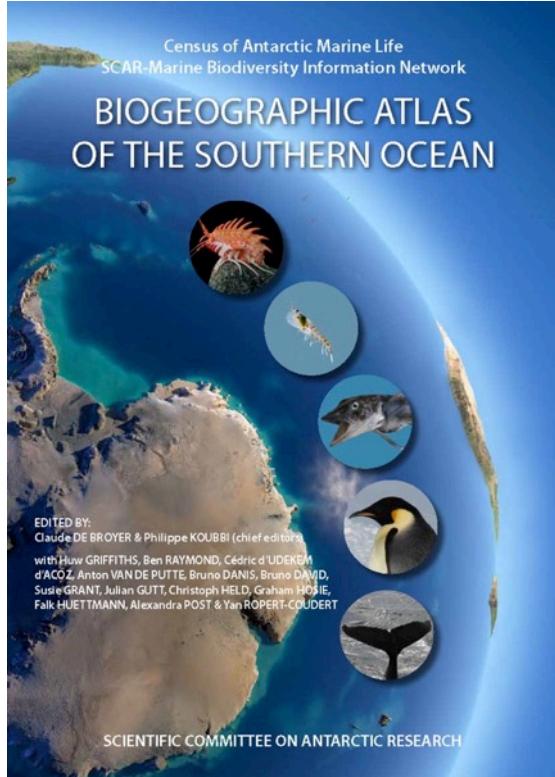
Map 1
— Akademik Fedorov, 2007/08
— Aby Ronnel, 2007/08
— Aurora Australis, 2007/08
— James Clark Ross, 2007/08
— L'Astrolabe, 2007/08
— Papanin, 2008-2009

— Polarstern, 2006/07
— Polarstern, 2007/08
— Tangaroa, 2007/08
— Umitaka Maru, 2007/08
— Yuzhnoe, 2007/08

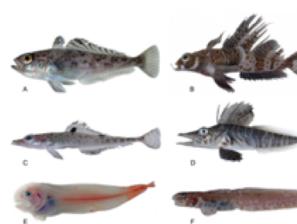
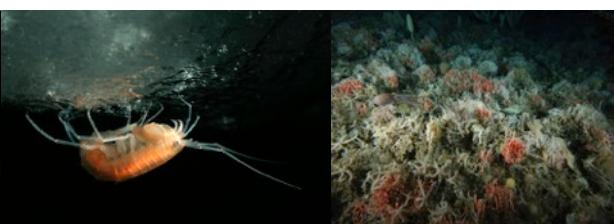
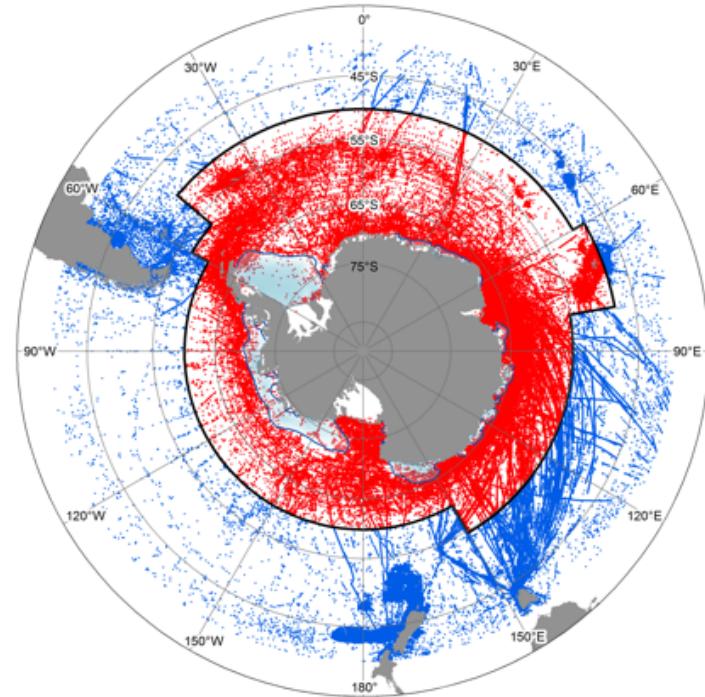




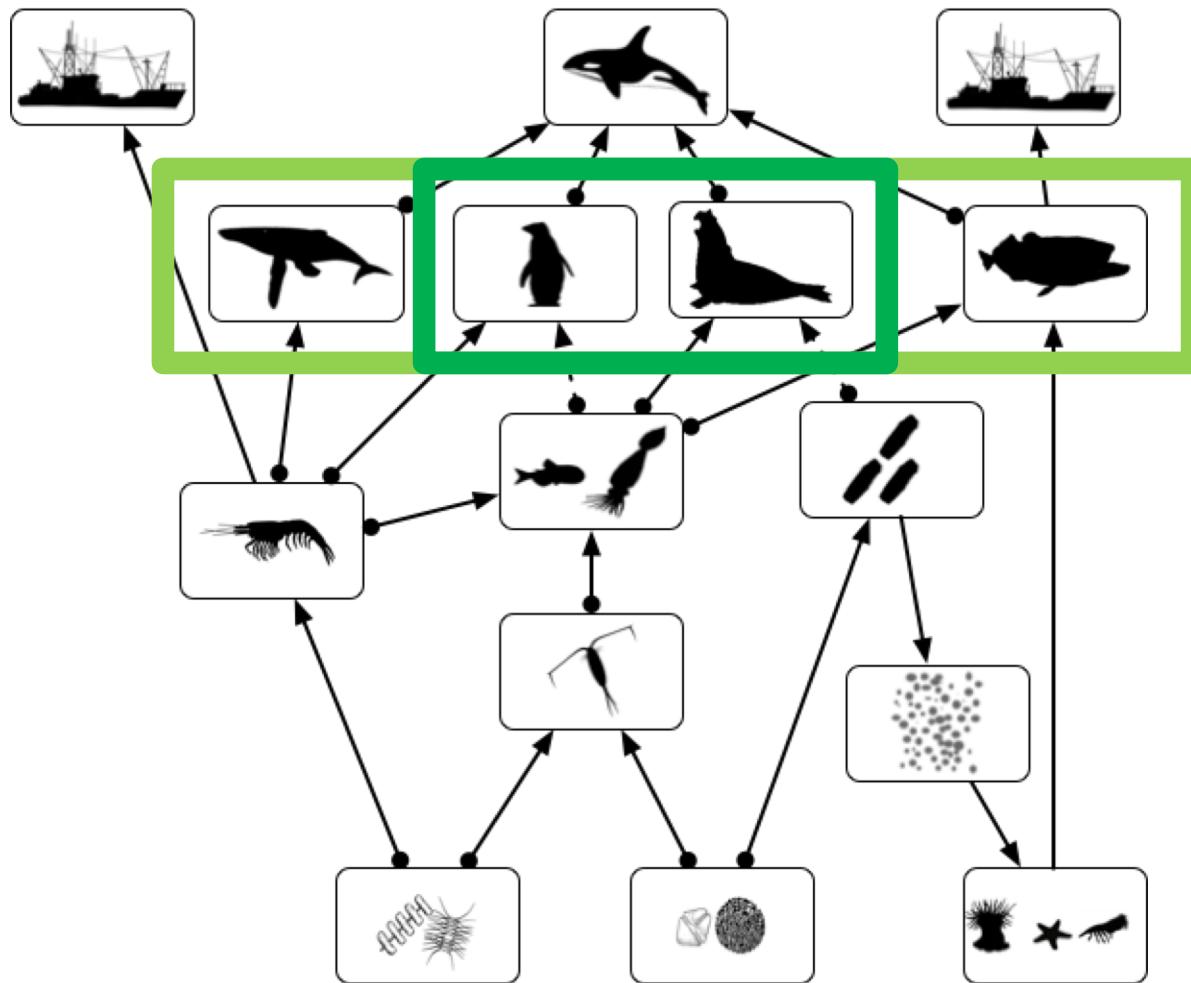
Biogeographic Atlas of the Southern Ocean



- 5 years
- 66 chapters
- 147 authors
- 15 editors
- 91 institutes
- 22 countries



Predators as eco-indicating species



Predators as eco-indicating species



Important Marine Mammal Areas (IMMA)



Retrospective Analysis of Antarctic Tracking Data (RAATD)





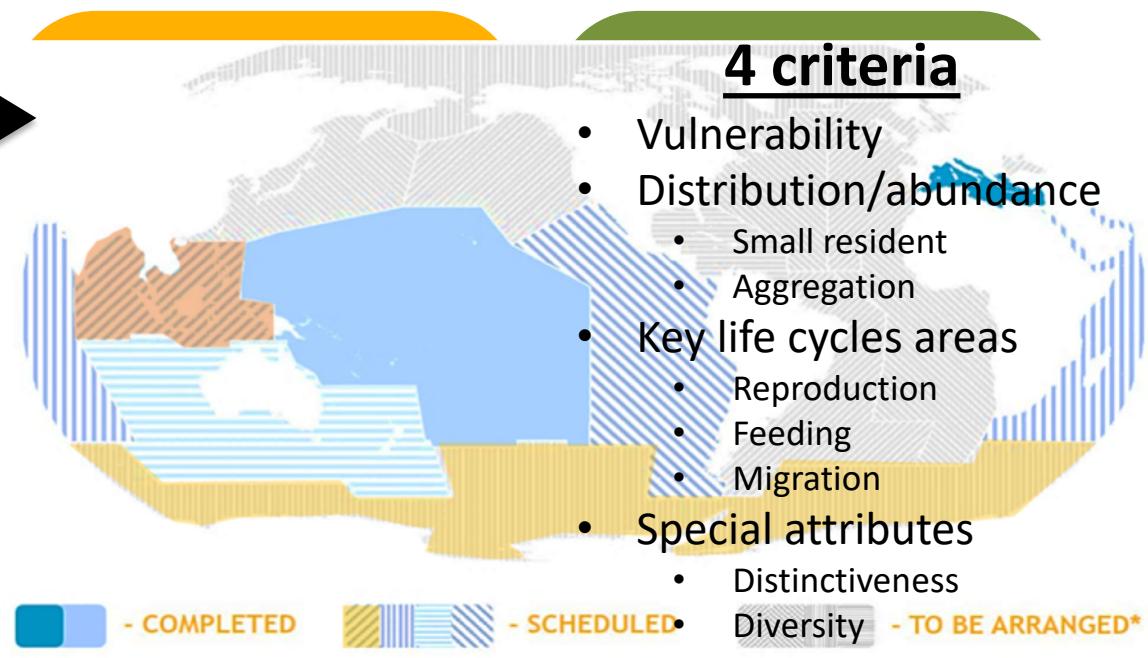
Important Marine Mammal Areas (IMMA)



A “discrete” portion of habitat, important for one or more marine mammal species, with the **potential** to be delineated and managed

1 – AoI Areas of Interest

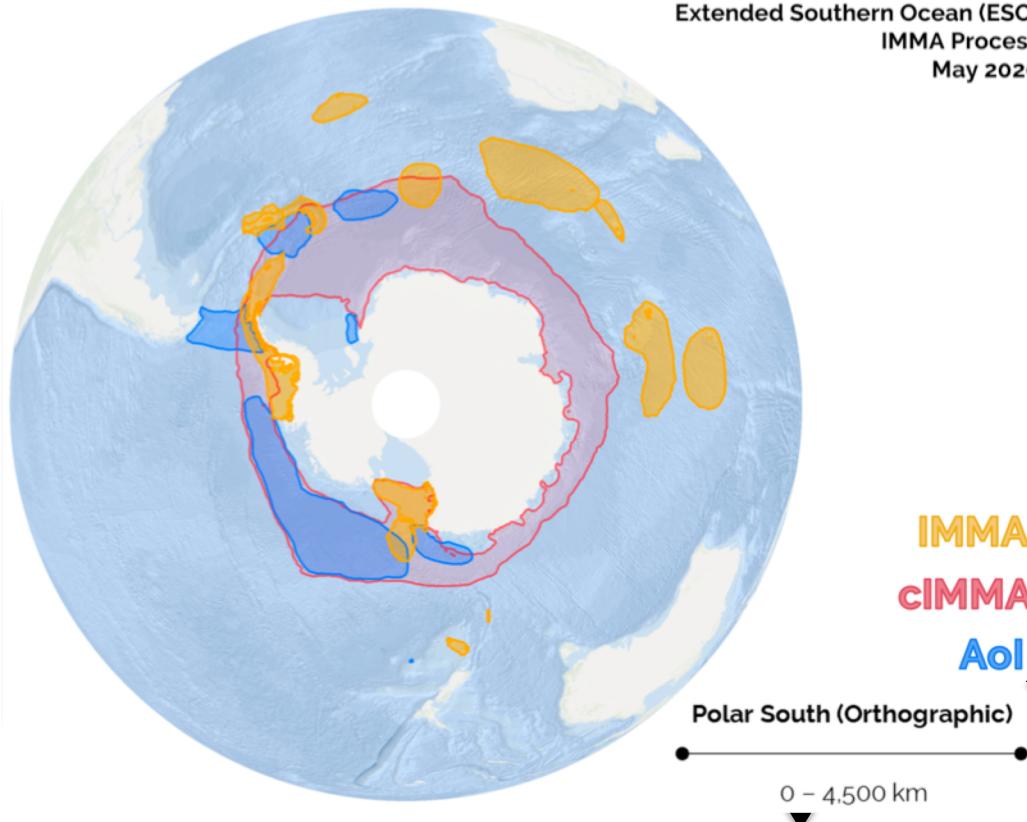
Collect information to identify areas of interest, e.g.
Southern Ocean



New analyses



Important Marine Mammal Areas (IMMA)



New analyses

IMMA
cIMMA
AoI

3 –IMMA
Final IMMA

Peer-review and
accepted by expert
panel

Advocacy



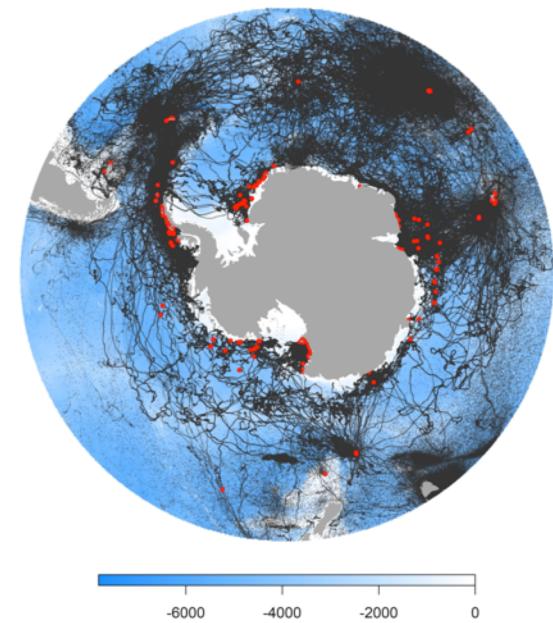
Retrospective Analysis of Antarctic Tracking Data (RAATD)



Retrospective Analysis of Antarctic Tracking Data

Identifying Areas of Ecological Importance to an assemblage of top-predators in the Southern Ocean

79 data contributors
46 institutions
Data from 17 species
4060 tracks
2,965,926 location fixes





Retrospective Analysis of Antarctic Tracking Data (RAATD)



DATA PAPER

Publicly available dataset for use by scientists and managers

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SCIENTIFIC
DATA

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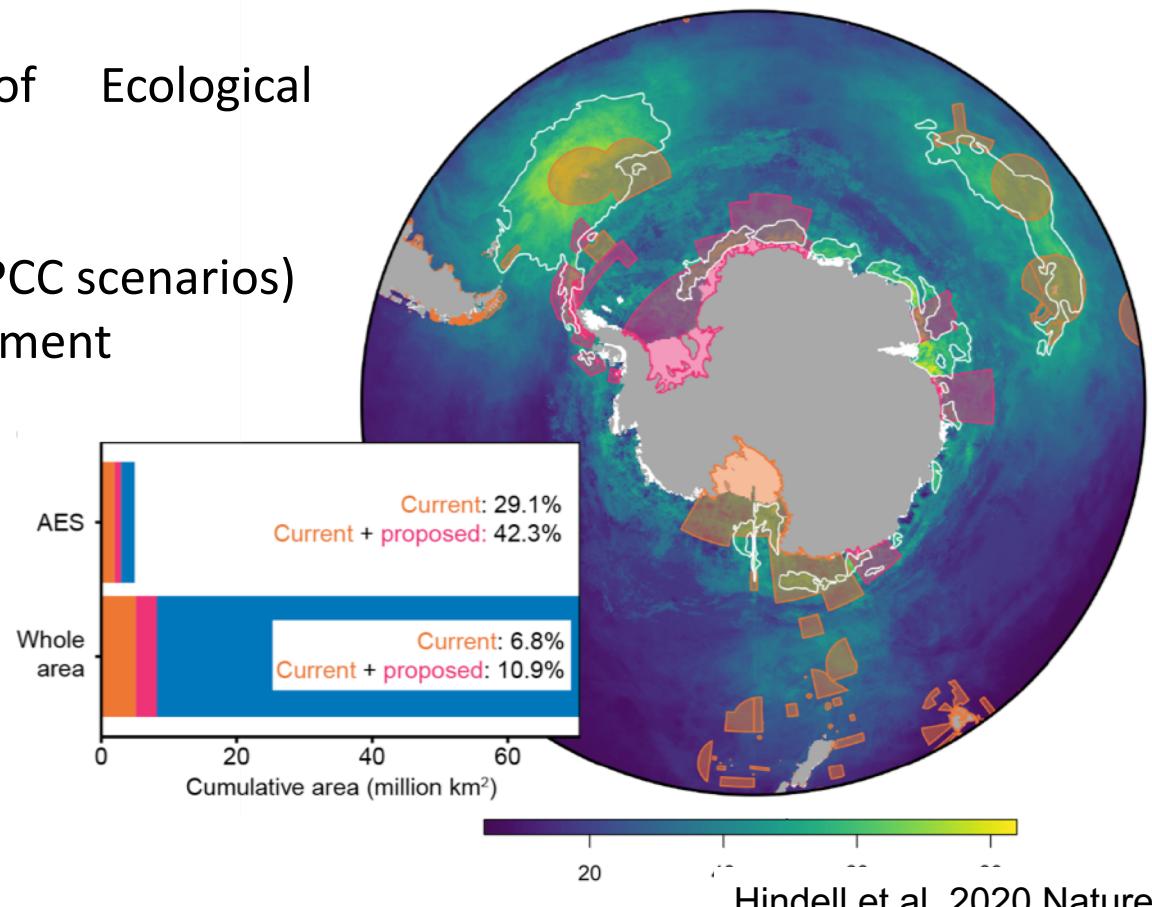


Retrospective Analysis of Antarctic Tracking Data (RAATD)



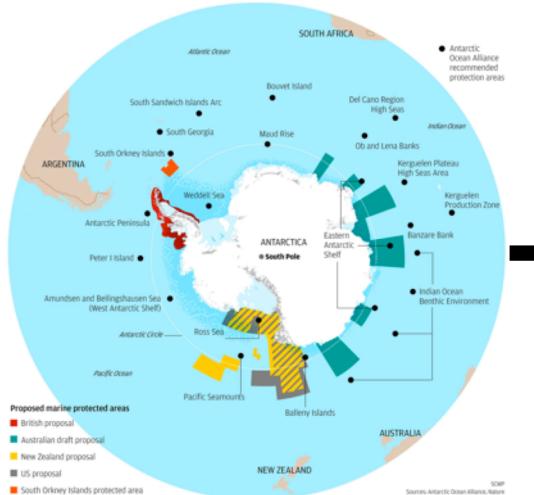
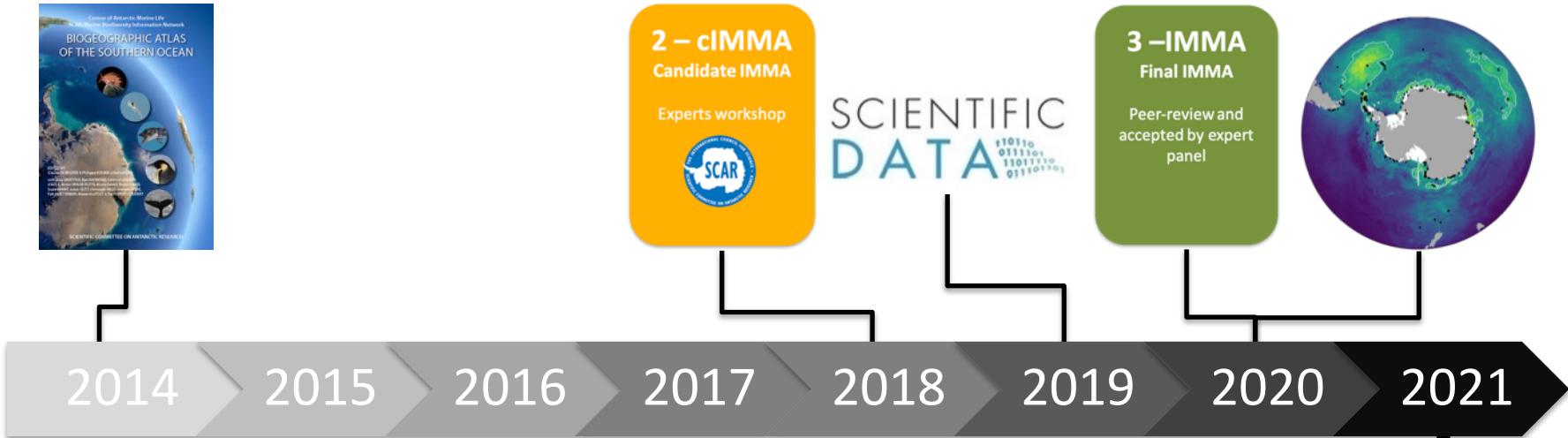
SYNTHESIS PAPER

- Identifying Areas of Ecological Importance
- Associated threats
- Future distributions (IPCC scenarios)
- Role in spatial management





Timeline et Aires Marines Protégées



Merci pour votre attention

