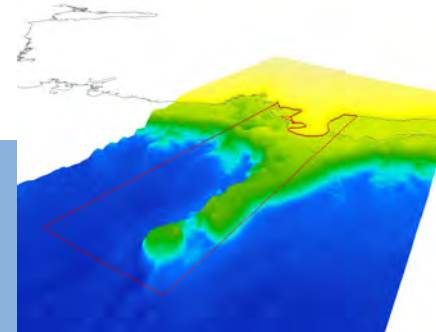
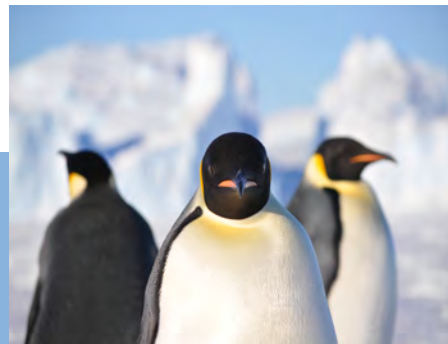
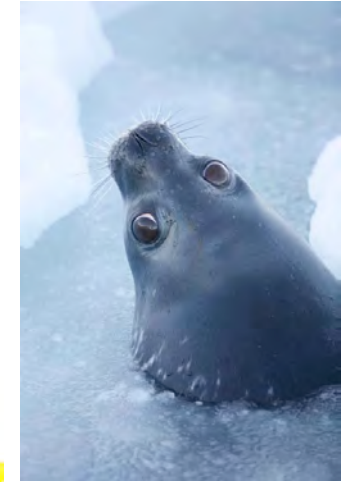




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# Linkages between SOOS and other ecosystem programs in the Southern Ocean

Andrew Constable (AAD, ACE CRC)

with the help of many in AAD, ACE CRC, SOOS, ICED, CCAMLR and so on)



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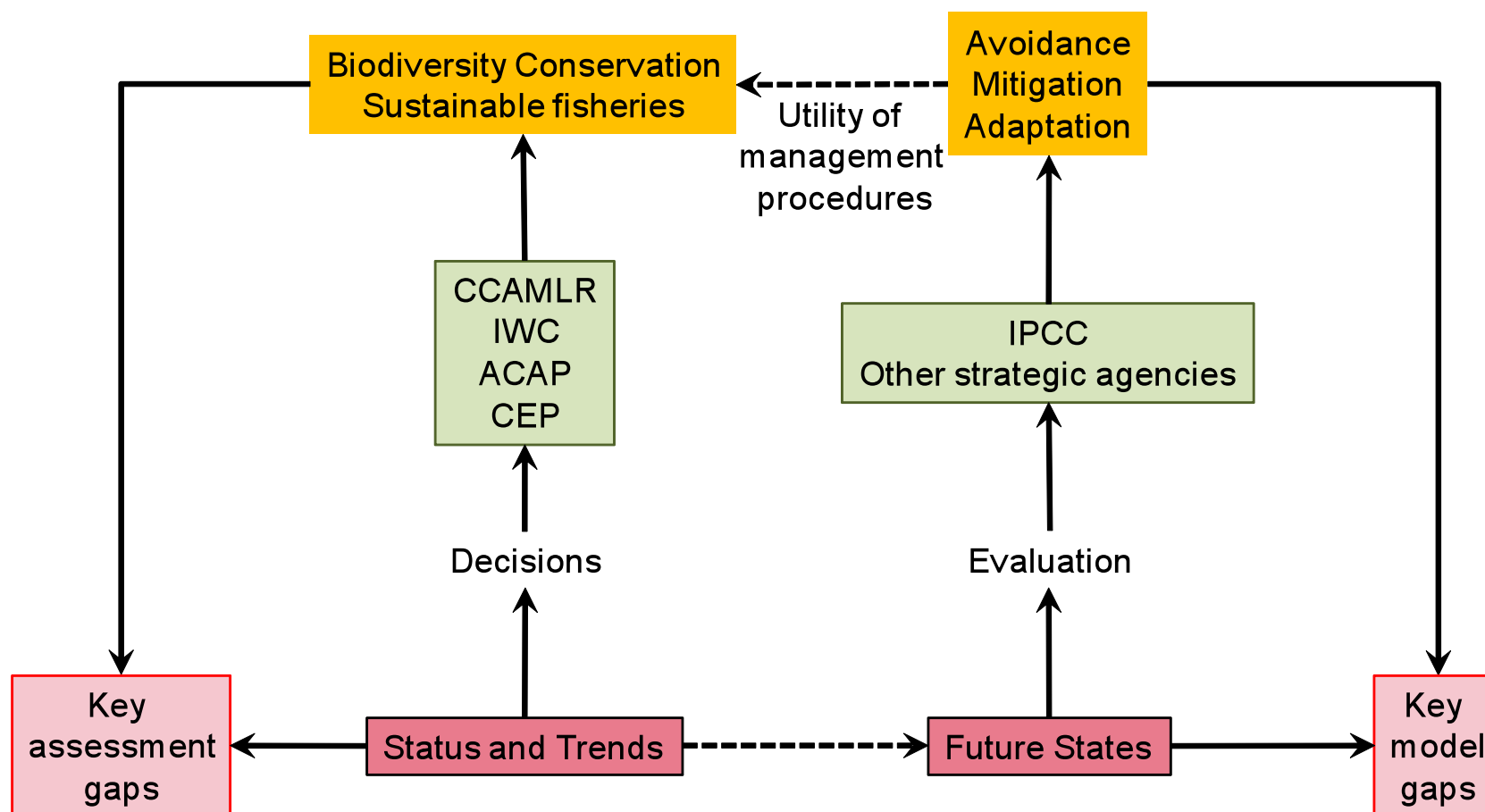
## Outline

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- Strategic research activities
- A regional view to Southern Ocean ecosystems
- Priority regional questions for ecosystems
- Multilateral collaboration
- Timelines

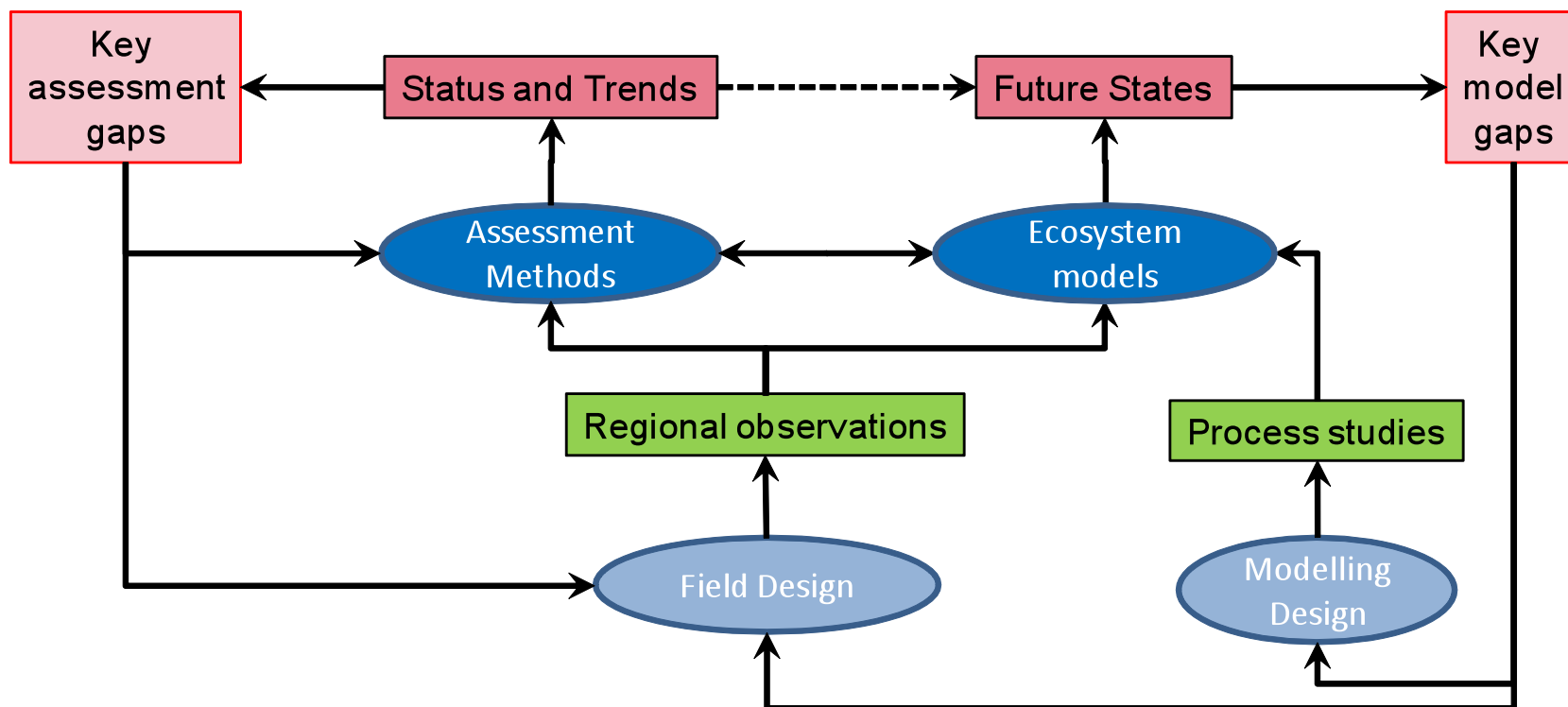


## Strategic research: policy significance



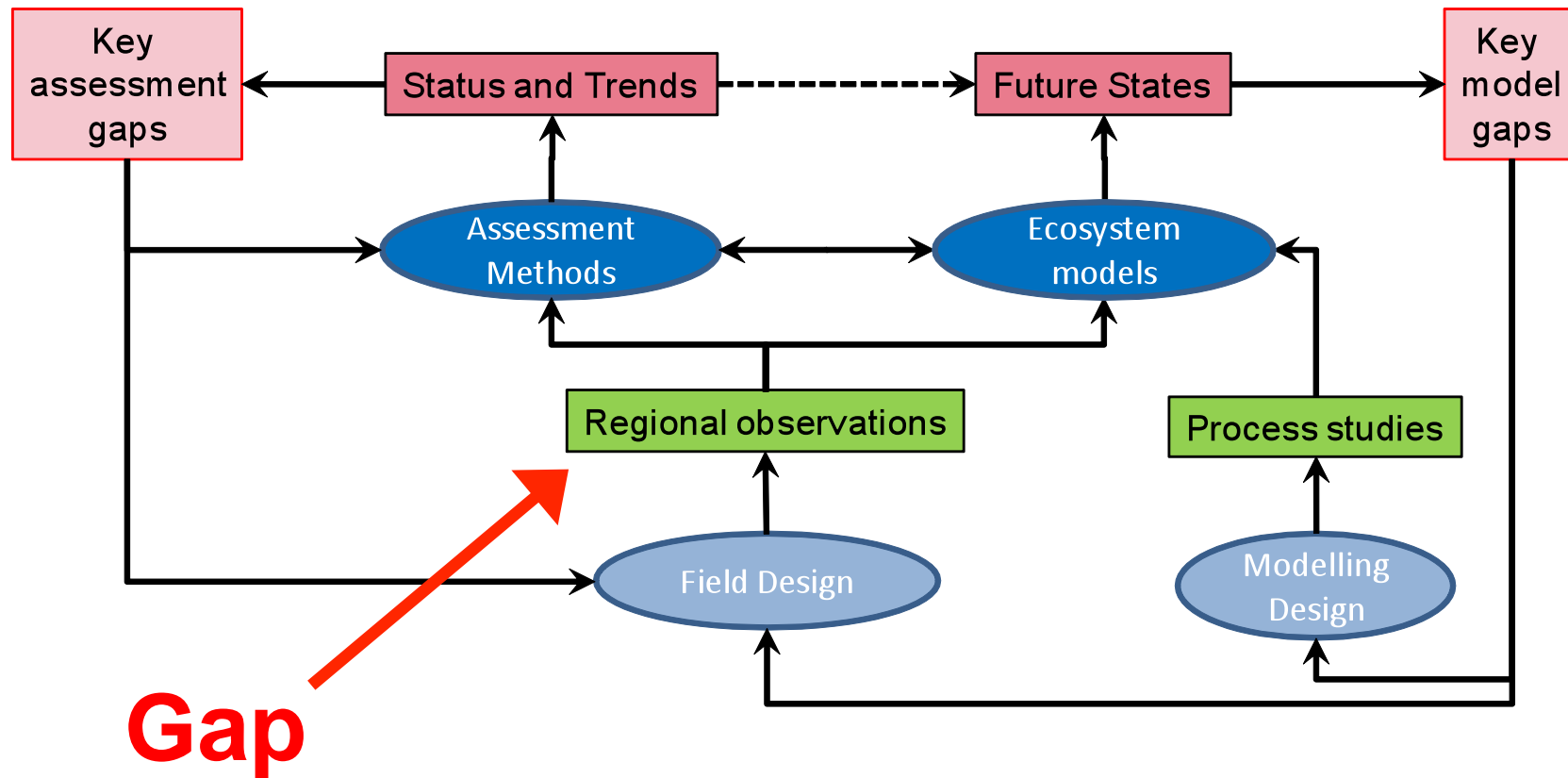


## Strategic research: science relevant to policy



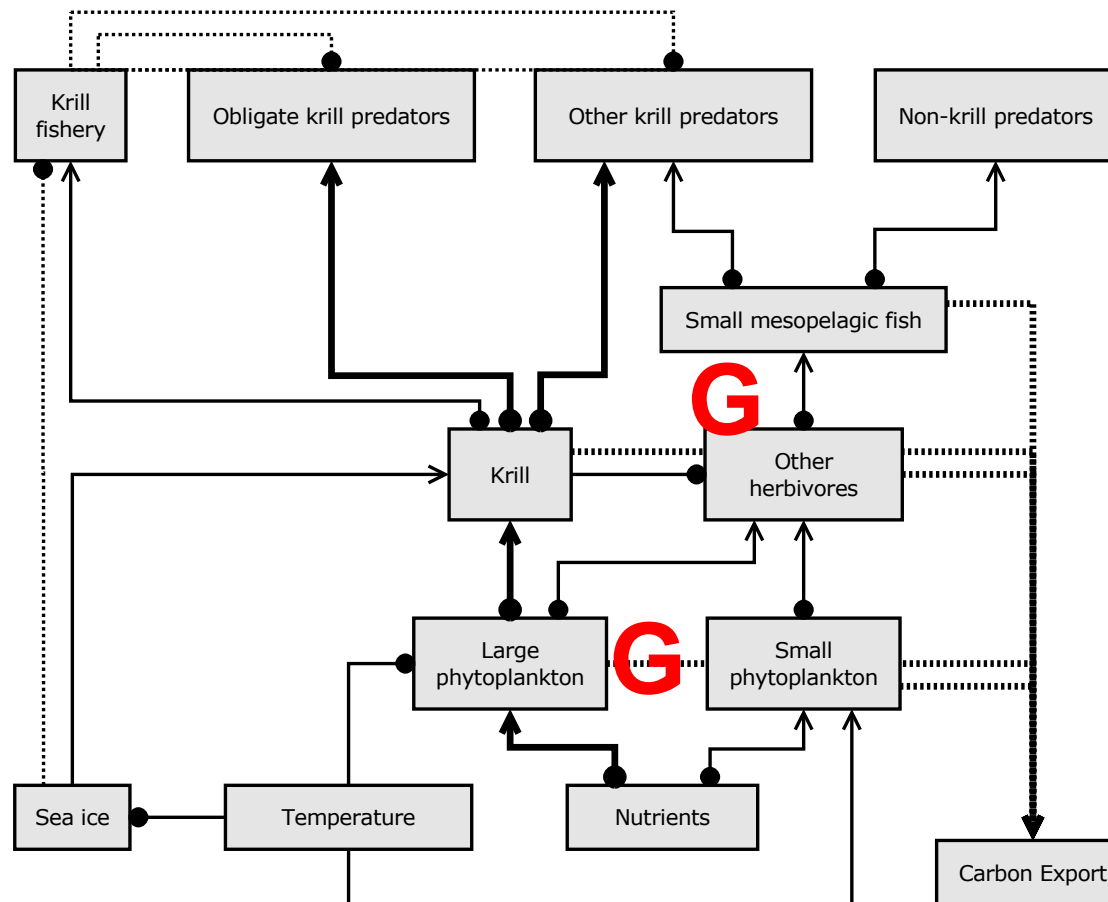


# Strategic research: science relevant to policy





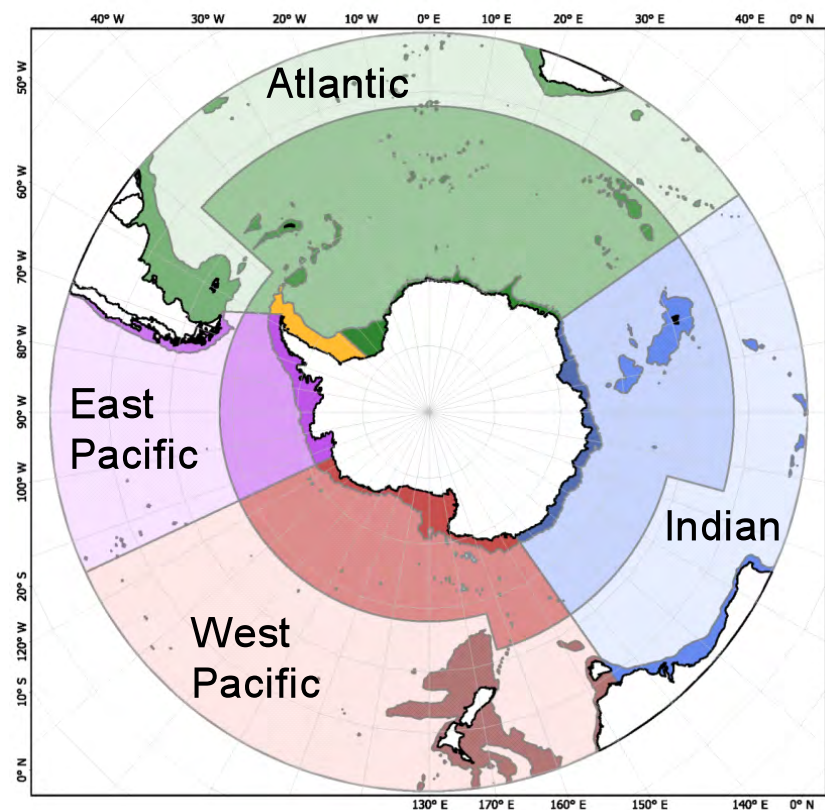
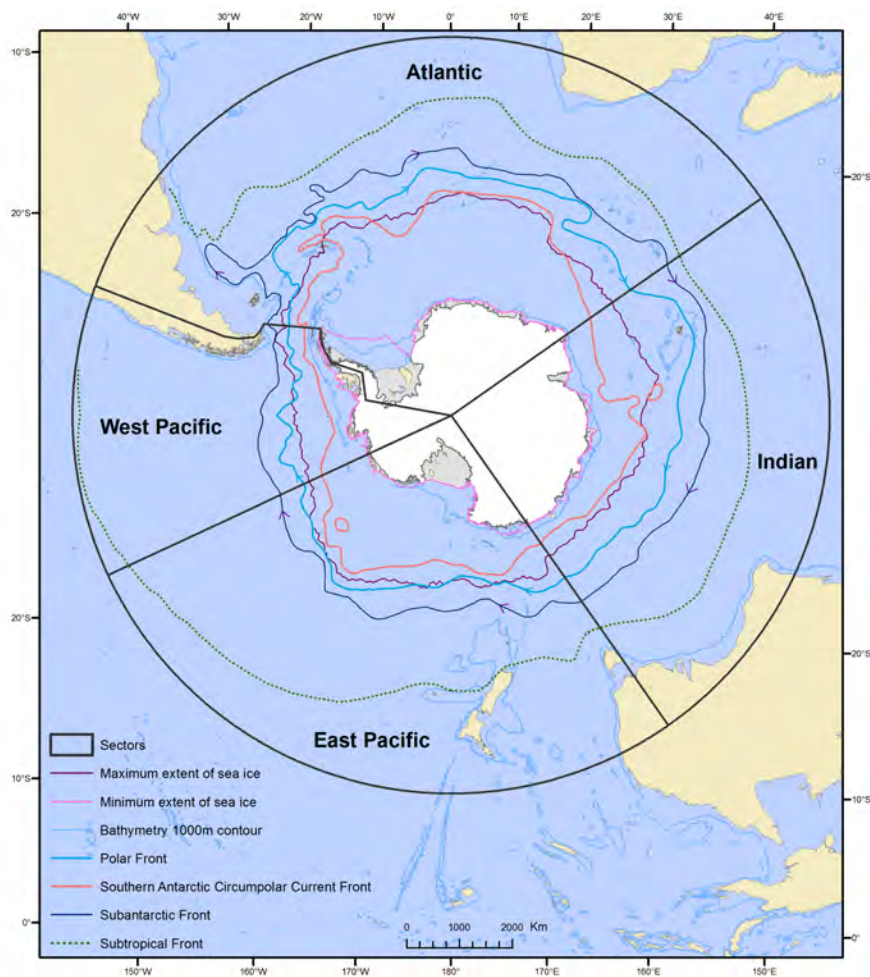
# Gaps (G) in status and trends in food webs







# A regional view to measuring status and trends





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## Priority regional questions

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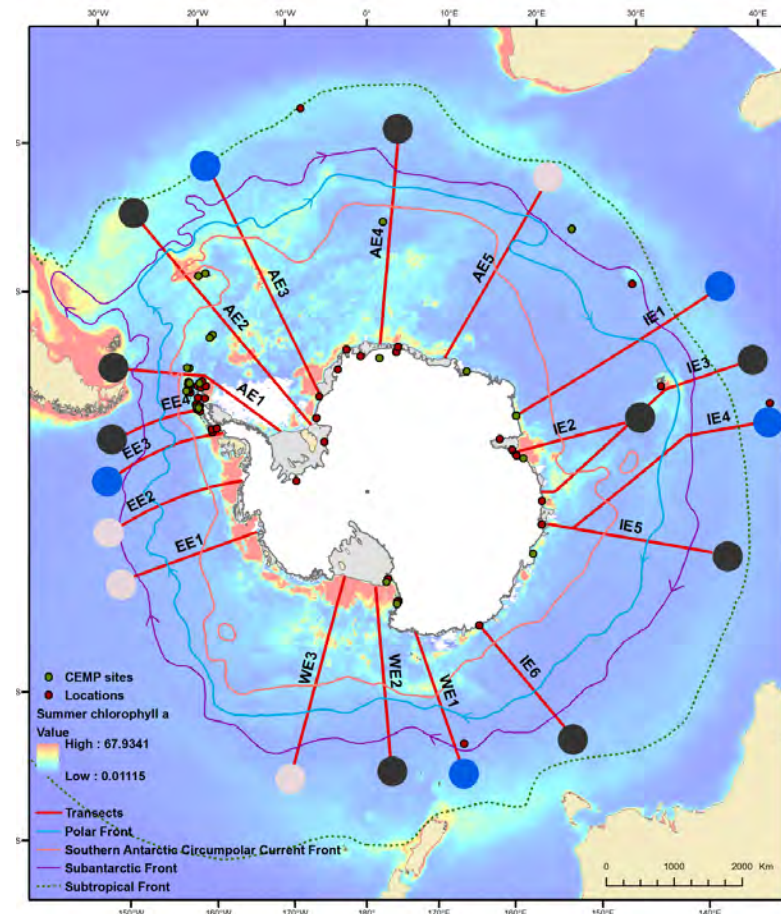
- Status of SO ecosystems
  - assessment based on current knowledge (carrying capacity, structure and function)
  - benchmark SO ecosystems
  
- Likelihood of future states
  - assessment based on current knowledge
  - critical processes (Marginal Ice Zone)





## Potential multilateral collaborations

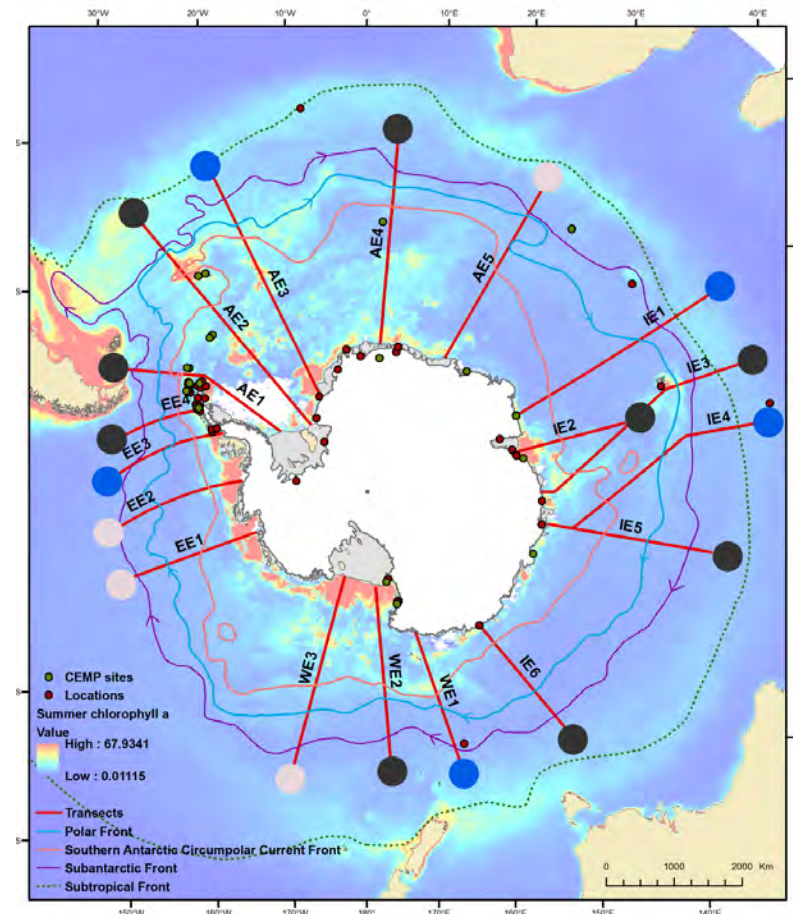
- Modelling toolbox (ICED)
- Methods, analytical toolbox (SOOS, CCAMLR)
- Essential variables to monitor (ICSU, SCOR, SOOS, GOOS, CCAMLR)
- SCAR
- COMNAP (operations)
- Multilateral collaboration
  - at sea
  - land-based





# Timelines

- 2013-2016
  - Develop long term capability
- 2017
  - Proposal for implementation
- 2017-2020(?)
  - Coordination
- 2020(?)
  - Benchmarking
- Southern Ocean ecosystem
- 2021-2022
  - Analyses and outputs









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## Acronyms

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- CCAMLR = Commission for the Conservation of Antarctic Marine Living Resources
- COMNAP = Council of Managers of National Antarctic Programs
- GOOS = Global Ocean Observing System
- ICED = Integrating Climate and Ecosystem Dynamics of the Southern Ocean
- ICSU = International Council of Scientific Unions
- SCAR = Scientific Committee on Antarctic Research
- SCOR = Scientific Committee on Oceanographic Research
- SOOS = Southern Ocean Observing System