

- 09:00 Session 8: Development in fishery resource assessment**  
**Dale Maschette** - A review of life-history parameter estimates for mackerel icefish (*Champsocephalus gunnari*) in the vicinity of Heard Island and McDonald Islands in Division 58.5.2
- 09:20 Andy Nicholls** - Age determination techniques for Australia's toothfish fisheries from the Kerguelen Plateau
- 09:40 Philippe Ziegler** - Recent developments in the fishery and stock assessment for Patagonian toothfish (*Dissostichus eleginoides*) at Heard Island and McDonald Islands
- 10:00 Félix Massiot-Granier** - Progress in our understanding of toothfish stock and its environment in the northern part of the Kerguelen plateau and Skiff bank
- 10:20 Evan Leonard** - Improving age estimation accuracy in the Patagonian toothfish: An updated aging error matrix
- 10:40 Coffee Break** (on site)
  - 11:10 Session 9: Depredation and by-catch mitigation in the toothfish fishery**  
**Johanna Faure** - Skates captured as by-catch in the toothfish longline fishery in Kerguelen EEZ
  - 11:30 Dale Maschette** - Initial investigations of longline fishery interactions with scavenging crustacea in the vicinity of Heard Island and McDonald Islands
  - 11:50 Paul Tixier** - Killer whale interactions with Patagonian toothfish longline fisheries on the Kerguelen Plateau
  - 12:10 Margaux Mollier** - Identifying the environmental and operational drivers of killer whale and sperm whale depredation on Patagonian toothfish longline catches around the Crozet and Kerguelen islands
  - 12:30 Lunch Break** (on site)
  - 14:00 Session 10: Resource management, marine policy and spatial planning**  
**Bailey Bourke** - Key science and management developments on the Kerguelen Plateau - update from Australia
  - 14:20 Audrey Bourdette** - The challenges facing the TAAF fishery in the waters of the Kerguelen Plateau
  - 14:40 Amanda Lombard** - A Marine Protected Area (MPA) network linking South Africa, France and Australia's existing MPAs across the high seas in the Indian Subantarctic region
  - 15:00 Discussion: Sessions 8, 9 & 10 (20')**
  - 15:20 Coffee Break** (on site)
  - 15:50 General discussion (1h40)**
  - 17:30 Close of Day 3**

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STATION MARINE  
CONCARNEAU

# PRO GRAM

## Kerguelen Plateau SYMPOSIUM



31 MARCH

2 APRIL

## DAY 1 MONDAY 31 MARCH, 2025

- 08:30 **Registration**  
09:20 **Official opening**  
09:40 **Session 1: Iron fertilization mechanism**  
**Stéphane Blain** - The mechanisms of natural iron fertilization of the Kerguelen Plateau remain an enigma  
10:00 **Rhea Thoppil** - Bioavailability of iron of glacial origin to marine microbial communities: A Kerguelen Island case study  
10:20 **Alex Nalivaev** - Contribution of a glaciogenic iron delivery to the spatial extent of the Kerguelen open ocean bloom
- 10:40 **Coffee Break** (on site)
  - 11:10 **Swan Sow** - Understanding microbial interactions at the metabolic level within the Kerguelen Plateau
  - 11:30 **Lola Gilbert** - A glimpse into the contribution of marine predators to nutrient recycling around the Kerguelen Plateau: from their potential prey, their faeces and the terrestrial recipient ecosystem
  - 11:50 **Session 2: Climate change impacts on ecosystems**  
**Nicolas Metzl** - Anthropogenic CO<sub>2</sub>, air-sea CO<sub>2</sub> fluxes and acidification in the Southern Ocean: results from a time-series analysis at station OISO-KERFIX (51°S-68°E)  
12:10 **Kerry Swadling** - Latitudinal shifts in trophic and size structure of lower trophic levels along the Kerguelen Plateau
  - 12:30 **Lunch Break** (on site)
  - 14:00 **Christophe Guinet** - Inter-annual variations of the environmental and oceanographic conditions in the Indian sector of the Southern Ocean and their effects on Kerguelen elephant seals pups weaning conditions  
14:20 **Anatole Gros-Martial** - In-situ underwater acoustic recordings from biologged elephant seals as an alternative source of wind speed data  
14:40 **Session 3: Pelagic seascapes**  
**Tegan Carpenter-Kling** - PHOCIS: Pelagic high seas ocean ecoregionalisation of the Indian subantarctic  
15:00 **Cédric Cotté** - Studying spatial structuring and patterns to elucidate the pelagic seascape of the southern Indian ocean
  - 15:20 **Coffee Break** (on site)
  - 15:50 **Andrea Walters** - Habitat associations of key midwater fish taxa on the Southern Kerguelen Plateau  
16:10 **Discussion: Sessions 1, 2 & 3 (40')**  
16:50 **Session 4: Top predators ecology**  
**Christophe Barbraud** - New insights on ecological niche segregation and demography of sympatrically breeding blue petrels and thin-billed prions  
17:10 **Erwan Piot** - Diving into the sleep ontogeny of Southern elephant seals: from time on land to sea  
17:30 **Close of Day 1**
  - 18:00 **Icebreaker** (on site)

### ACKNOWLEDGEMENTS :



Thalassa  
Marine Research and  
Science Communication

#### ORGANIZATION :

**Tosca Ballerini** Communication Thalassa  
**Jean-Patrice Robin** Trésorier CNFRAA

**Kebba Sanneh /  
Nicolas Gasco**  
Graphisme

## DAY 2 TUESDAY 1 APRIL, 2025

- 09:00 **Session 4 (continuation): Top predators ecology**  
**Mathilde Michel** - Modelling the influence of environmental factors on the acoustic presence of Blue whale populations in the Southern Indian Ocean  
09:20 **Alice Carravieri** - Seabirds from the Kerguelen Islands as bioindicators of large-scale marine pollution  
09:40 **Session 5: New insights of the benthos**  
**Edel Sheerin** - Evolutionary origin and connectivity of the Kerguelen plateau benthos over space and time  
10:00 **Alexis Martin** - Environmental constraints on the composition and spatial distribution of deep-sea epibenthic macroinvertebrate communities of the Kerguelen EEZ  
10:20 **Session 6: Fishery monitoring and new instrumentation**  
**Marion Kauffmann** - Contribution of fishery observation program to scientific knowledge on the Kerguelen plateau- 10:40 **Coffee Break** (on site)
- 11:10 **Timothy Lamb** - Net Gains: Harnessing commercial fishing vessels as ships of opportunity for Marine Science  
11:30 **Alexis Martin** - Development of an underwater camera to study deep-sea benthic ecosystems in the Southern Ocean: the Bendicam project  
11:50 **Discussion: Sessions 4, 5 & 6 (40')**
- 12:30 **Lunch Break** (on site)
- 14:00 **Charlotte Chazeau** - Pecheker: a fisheries and ecosystem-based database for scientific monitoring and data curation in the Southern Ocean  
14:20 **Session 7: Demersal fish and fisheries**  
**Joel Williams** - Climate change, fisheries management, and modelling changes in benthic fish community structure on the Kerguelen Plateau  
14:40 **Rebecca Konijnenberg** - Climate change on the Kerguelen Plateau and implications for the design of demersal fish research surveys  
15:00 **Clara Péron** - Key Insights from Poker V and the future of scientific surveys in the Kerguelen EEZ
- 15:20 **Coffee Break** (on site)
- 15:50 **Cara Masere** - Exploration of Patagonian toothfish (*Dissostichus eleginoides*) movement patterns across the Kerguelen Plateau  
16:10 **Fanny Ouzoulias** - Modelling spatio-temporal dynamics of Patagonian toothfish spawning in Kerguelen waters using CPUE data  
16:30 **Discussion: Sessions 7 + Essential biodiversity variables (1h)**  
17:30 **Close of Day 2**
- 19:00 **Social dinner**  
**Restaurant Le Chantier**

### STEERING COMMITTEE :

**Clara Péron** (BOREA, France) / **Philippe Ziegler** (AAD, Australia) Fisheries  
**Marc Eléaume** (ISYEB, France) Benthic invertebrates

**Jilda Caccavo** (IPSL, France) Genomics/microchemistry - **Christophe Guinet** / **Cédric Cotté** (CEBC/LOCEAN, France) Top predators - **Nicole Hill** (UTAS, Australia) Benthic community modeling - **Clara Azarian** (LOCEAN, France) Ocean/climate - **Stéphane Blain** (LOMIC, France) Biogeochemistry - **Guillaume Massé** (Head of the Concarneau Marine Station, MNHN, France)