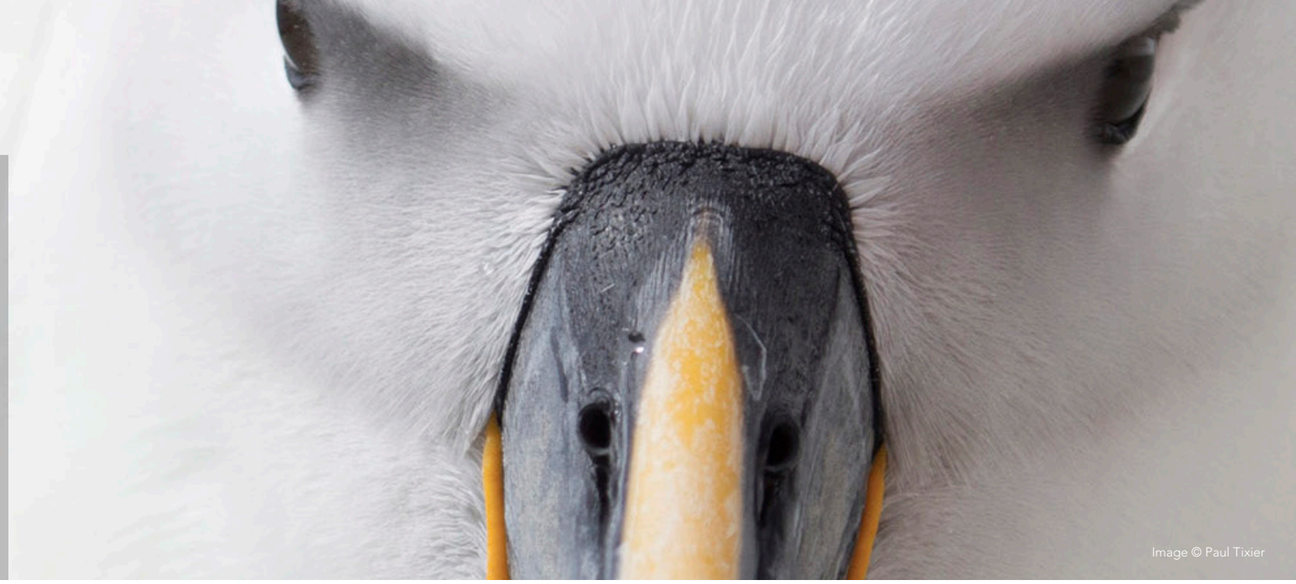
KERGUELEN PLATEAU
Marine Ecosystems & Fisheries • SYMPOSIUM 2017

SYMPOSIUM PROGRAM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Day One - Monday 13 November, 2017

0830 **Registration**
0930 **Official Opening**
1030 Break (Morning tea provided on site)
1100 Session One: **Marine Geomorphology and Oceanography**
1100 **Mike Coffin** - Volcanism, Iron, and Phytoplankton on the Kerguelen Plateau
1120 **Sally Watson** - Submarine geology and geomorphology of active sub-Antarctic volcanoes: Heard and McDonald Islands
1140 **Erica Spain** - First evidence of shallow seafloor gas seepage on the Kerguelen Plateau
1200 **Pier van der Merwe** - Trace metal bioavailability is greater of particles sourced from glacial erosion than hydrothermalism in the Southern Ocean
1220 **Sophie Bestley** - Surface ocean circulation during the southern Kerguelen Axis ecosystem study
1240 Lunch (provided on site)
1330 Session Two: **Meso-pelagic fish, squid and krill**
1330 **Jérôme Mallefet** - First data on lanternfishes bioluminescence from the Kerguelen plateau
1350 **Dongming Lin** - The pelagic squid assemblage of the Kerguelen Axis
1410 **Laurence Clark** - DNA-based diet analysis of mesopelagic fish from the southern Kerguelen Axis
1430 **Rowan Treblico** - Environmental drivers of mesopelagic community structure on the Southern Kerguelen Axis
1500 Break (Afternoon tea provided on site)
1530 Session Three: **Marine Ecosystem modelling**
1530 **Jess Melbourne-Thomas** - A food web model for the southern Kerguelen Plateau region.
1550 **Stuart Corney** - Modelling southern elephant seals in East Antarctica using an individual-based model with a dynamic energy budget
1610 **Roshni Subramaniam** - A balanced model for the Kerguelen Plateau
1630 **Rowan Treblico** - Ecosystem models for understanding major energy pathways and change in the Kerguelen Plateau region
1700 Close of Day One
1800 Reception and Icebreaker + Poster Evening
Institute for Marine and Antarctic Studies
20 Castray Esplanade, Battery Point

Day Two - Tuesday 14 November, 2017

0900 Session Four: **Bentho-pelagic coupling and biogeochemistry**
0900 **Stéphane Blain** - The seasonality of the Kerguelen bloom revealed by autonomous tools
0920 **Narissa Bax** - Carbon storage by Kerguelen zoobenthos as a negative feedback on climate change
0940 **Ingrid Obernosterer** - Role of particle-attached bacteria in rendering iron and carbon bioavailable
1000 **Swan Sow** - Prokaryoplankton community composition of Southern Ocean water masses
1020 **Christina Schallenberg** - Sustained upwelling of subsurface iron supplies the phytoplankton blooms around the southern Kerguelen plateau
1040 Break (Morning tea provided on site)
1110 Session Five: **Fisheries and conservation session 1**
1110 **Guy Duhamel** - Recent changes in fish abundance over the Kerguelen Islands shelf and adjacent banks
1130 **Romain Sinegre -** The development of an integrated stock assessment for Patagonian toothfish (*Dissostichus eleginoides*) in the Kerguelen Islands EEZ
1150 **Philippe Ziegler** - The fishery for Patagonian toothfish (*Dissostichus eleginoides*) at Heard Island and McDonald Islands
1210 **Paul Burch -** Challenges in estimating Patagonian toothfish movement on the Kerguelen Plateau: reflections on 20 years of tagging at Heard Island and McDonald Islands
1230 **Leonid Pshenichnov** - Features of the generation of the biological productivity of the Ob and Lena banks in the southern Indian Ocean
1250 Lunch (provided on site)
1350 Session Six: **Fisheries and conservation session 2**
1350 **Jo Fisher -** Australia's ecological risk assessment and ecological risk management framework for fisheries
1410 **Dale Maschette -** Mackerel icefish within the vicinity of Heard Island and the McDonald Islands
1430 **Philippe Ziegler -** The stock structure of Patagonian toothfish (*Dissostichus eleginoides*) on the Kerguelen Plateau
1450 **Paul Tixier** - Between-fisheries comparisons of sperm whale (*Physeter macrocephalus*) depredation patterns on the Kerguelen Plateau
1510 **Tim Lamb** - Development of a deepwater camera system capable of deployment on fishing gear
1530 Break (Afternoon Tea provided on site)
1600 Session Seven: **Marine protected areas and marine policy**
1600 **Alexis Martin** - Benthic ecoregionalisation and conservation issues in the French EEZ of the Kerguelen
1620 **Thibaut Thillier** - The French southern lands marine protected area: genesis of one of the largest marine protected area in the world
1640 **Lihini Weragoda** - Expansion of the Heard Island and McDonald Islands Marine Reserve
1700 **Thibaut Thillier** - The French southern lands marine protected area: how to conciliate the protection of marine ecosystems with a sustainable fishing activity
1720 Close of Day Two

Day Three - Wednesday 15 November, 2017

0900 Session Eight: **Fisheries bycatch**
0900 **Charlotte Chazeau** - Shark bycatch observed on commercial bottom longlines fisheries, off the Kerguelen Islands (division 58.5.1), 2006-2016
0920 **James Dell** - Monitoring of major bycatch species in the Heard Island and McDonald Islands fisheries
0940 **Pamela Micheal** - Reproductive value provides novel tool to mitigate bycatch impacts versus threat-based approaches
1000 **Bruce Deagle** - DNA metabarcoding as a marine conservation and management tool: A circumpolar examination of fishery discards in the diet of threatened albatross
1030 Break (Morning Tea provided on site)
1100 Session Nine: **Marine mammals and top predators**
1100 **Olivier Lambert** - Neogene and Quaternary fossil remains of beaked whales (Cetacea, Odontoceti, Ziphiidae) from deep-sea deposits off Crozet and Kerguelen islands
1120 **Malcolm O'Toole** - Ocean physics and its impact on trophic interactions within the Antarctic Circumpolar Current
1140 **Nicolas Gasco -** Bird and marine mammal observations conducted from fishing vessels.
1200 **Mark Hindell** - A decade of tracking seals reveals that meso-pelagic prey will be harder to find in a warming Southern Ocean
1230 Lunch (provided on site)
1330 Session Ten: **Bioregionalization and Biodiversity**
1330 **Jean-Pierre Féral** - A long term submarine monitoring of the Sub-Antarctic coastal benthos facing climate change, as a result of decades of research in Kerguelen Islands
1350 **Marc Eléaume** - Biodiversity of the benthos of the Kerguelen Plateau
1410 **Nicole Hill** - Mapping the distribution of demersal fish assemblages on the Kerguelen Plate
1430 **Marc Eléaume** - Phylogenetic Diversity as an index for Conservation Planning in CCAMLR statistical sub-areas
1500 Break (Afternoon Tea provided on site)
1530 Closing Session
1700 Symposium Close
1800 **Bus departs CCAMLR for Delegate Conference Dinner**
Seagrass Long Point, 19 Beach Rd, Sandy Bay