

## **Spatial ecology and energetics of seabirds exposed to climate change and overfishing**

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Talk outline: Advances in electronic technologies have enabled major progress in field studies of seabird ecophysiology and spatial ecology. These insights are an essential aid for the understanding of global change impacts on seabirds, and for the design of improved conservation strategies of threatened species. Using long-term electronic studies of seabirds performed across the Atlantic, from Greenland to South Africa (with a likely detour in the Mediterranean), I will illustrate these aspects, thereby providing an overview of research activities conducted in my group.

Researcher profile: David Grémillet is a biological oceanographer with a keen interest for seabird ecophysiology and animal electronic tracking technologies. After a PhD at the Institute of Marine Science in Kiel (Germany) and a Marie Curie Post Doc with NERC-CEH in Banchory (Scotland), he joined CNRS (France) in 1999. He is currently senior researcher and leader of the spatial ecology group at CEFE-CNRS in Montpellier. David is associate editor of *Functional Ecology*, French representative at the CAFF working group of the Arctic Council, and member of the science panel of the French Arctic Initiative, as well as of the French committee for polar environments.

[https://www.researchgate.net/profile/David\\_Gremillet](https://www.researchgate.net/profile/David_Gremillet)

<http://www.cefe.cnrs.fr/fr/recherche/ee/esp/777-c/153-david-gremillet>

<https://scholar.google.ca/citations?user=TYRM1jcAAAAJ&hl=fr>

Selected recent publications:

[Arctic warming: nonlinear impacts of sea-ice and glacier melt on seabird foraging](#)

D Grémillet, J Fort, F Amélineau, E Zakharova, T Le Bot, E Sala, M Gavriilo (2015)

Global change biology 21 (3), 1116-1123

[Adult and juvenile European seabirds at risk from marine plundering off West Africa](#)

D Grémillet, C Péron, P Provost, A Lescroël (2015)

Biological Conservation 182, 143-147

[Are Cape gannets dependent upon fishery waste? A multi-scale analysis using seabird GPS-tracking, hydro-acoustic surveys of pelagic fish and vessel monitoring systems](#)

E Tew Kai, S Benhamou, CD Lingen, JC Coetzee, L Pichegru, PG Ryan, ... & D Grémillet (2013)

Journal of Applied Ecology 50 (3), 659-670

[Importance of coastal Marine Protected Areas for the conservation of pelagic seabirds: The case of Vulnerable yelkouan shearwaters in the Mediterranean Sea](#)

C Péron, D Grémillet, A Prudor, E Pettex, C Saraux, A Soriano-Redondo, ... (2013)

Biological conservation 168, 210-221