

Philippine CHAMBAULT

Høllænderdybet 16, 2300 København, Denmark (French, 36 yrs old, she/her/hers)

☎ (+33) 6 43 85 29 60 | ✉ philippine.chambault@gmail.com | 🏠 pchambault.github.io/portfolio/ | 🐙 [pchambault](https://github.com/pchambault) | 🔗 [pchambault](https://www.linkedin.com/company/pchambault) | 🌐 [Researchgate](https://www.researchgate.net/profile/Philippine-Chambault)

Presentation

I am a marine scientist with a broad interest in animal movement and ocean dynamics. I have expertise in quantitative analyses using diverse data sets (e.g., time series, spatial and environmental data) to examine the movement ecology of marine megafauna species in relation to oceanographic processes and how they drive species distribution and diving behaviour.

Education

DEPE - IPHC - CNRS - University of Strasbourg

PHD IN QUANTITATIVE ECOLOGY AND OCEANOGRAPHY

- Habitat use of the French Guianese sea turtles using satellite tracking and oceanographic data

Strasbourg - FRANCE

Jun 2014-Jun 2017

University of Pierre et Marie Curie (UPMC)

MSC IN PHYSICAL OCEANOGRAPHY AND MARINE ENVIRONMENT

- Conservation and modeling of marine ecosystems

Paris - FRANCE

Sep 2011-Jun 2013

Experiences

Greenland Institute of Natural Resources, University of California Santa Cruz

MARIE SKŁODOWSKA-CURIE FELLOW: PHYSIOLOGICAL AND BEHAVIORAL RESPONSES OF ARCTIC WHALES TO CLIMATE CHANGE

- Thermal biology, Movement ecology, Acoustics, Species Distribution Modeling (packages: *ncdf4*, *data.table*, *ggplot2*)

USA - DENMARK

Oct 2021-Present

Aquarium La Rochelle

POST-DOCTORAL RESEARCHER: THERMAL ECOLOGY OF STRANDED JUVENILE LOGGERHEAD TURTLES

- Satellite tracking, Habitat use (packages: *tidyverse*, *performance*, *ncdf4*, *rWind*, *cvTools*, *PresenceAbsence*, *mgcv*)

La Rochelle - FRANCE

Jan 2021-Jul 2021

Greenland Institute of Natural Resources

POST-DOCTORAL RESEARCHER: PROJECTIONS OF CLIMATE CHANGE ON POLAR SPECIES

- Machine learning: classification (Random Forest, KNN), regression (logistic, additive), climate models (CMIP6)
- Packages: *caret*, *CAST*, *gstat*, *ncdf4*, *raster*, *dplyr*, *doParallel*, *foreach*

Copenhagen - DENMARK

May 2020-Dec 2020

IFREMER - MARBEC

POST-DOCTORAL RESEARCHER: HABITAT USE OF JUVENILE GREEN TURTLES IN THE INDIAN OCEAN

- Habitat modeling: logistic models, pseudo-absences, SDMs (packages: *adehabitatHR*, *adehabitatHS*, *rgdal*)

Sète - FRANCE

Nov 2018-Apr 2020

University of the Azores - IMAR

POST-DOCTORAL RESEARCHER: INTERACTIONS BETWEEN MARINE LITTER AND JUVENILE LOGGERHEAD TURTLES

- Spatial modeling: physical oceanography, mixed models, drifter data

Azores - PORTUGAL

Apr 2018-Oct 2018

Greenland Institute of Natural Resources

POST-DOCTORAL RESEARCHER: HABITAT AFFINITIES OF SATELLITE TRACKED BOWHEAD WHALES

- Habitat modeling: GAMs, GLMs, Copernicus database (packages: *mgcv*, *ncdf4*, *glmer*)

Paris - FRANCE

Oct 2017-Apr 2018

Institut Pluridisciplinaire Hubert Curien - CNRS

PHD STUDENT: INFLUENCE OF OCEANOGRAPHIC STRUCTURES ON SEA TURTLES MOVEMENTS IN THE NORTH ATLANTIC

- Habitat use: residence time, state space model, kernel density, diving behaviour

Strasbourg - FRANCE

Jun 2014-Jun 2017

Centre d'Études Biologiques de Chizé - CNRS

RESEARCH ASSISTANT: HABITAT USE OF THE BOTTLENOSE DOLPHIN OF THE NORMAND-BRETON GULF

- Geostatistics & habitat modeling: variogram, kriging, GAMs

Beauvoir-sur-Niort - FRANCE

Feb 2013-Jun 2013

Publications

23 ARTICLES, 17 AS 1st AUTHOR, 2.6 ARTICLES/YEAR, CITATIONS: 571

2024	P. Lelong, [...], P. Chambault , et al. Demography of endangered juvenile green turtles in face of environmental changes: 10 years of capture-mark-recapture efforts in Martinique. 291, 110471. (IF: 5.9 , cites: 0). j.biocon.2024.110471	<i>Biol. Conserv.</i>
2024	P. Chambault , et al. The nightscape of the Arctic winter shapes the diving behavior of a marine predator. (IF: 4.6, cites: 0). 10.1038/s41598-024-53953-w	<i>Sci. Rep.</i>
2023	P. Chambault , et al. Extremely low seasonal prey capture efficiency in a deep diving whale, the narwhal. (IF: 3.812, cites: 4). doi.org/10.1098/rsbl.2022.0423	<i>Bio. Lett.</i>
2023	Heide-Jørgensen, P. Chambault , et al. A regime shift in the Southeast Greenland marine ecosystem. 29(3). 668-685. (IF: 10.863, cites: 12). doi.org/10.1111/gcb.16494	<i>Glob. Chang. Bio.</i>
2022	P. Chambault , et al. Future seasonal changes in habitat for Arctic whales during predicted ocean warming. 8(29). (IF: 14.136, cites: 22). 10.1126/sciadv.abn242	<i>Sci. Adv.</i>
2021	P. Chambault , et al. Ecological trap or favorable habitat? First evidence that immature sea turtles may survive at their range-limits in the North-East Atlantic. (IF: 4.435, cites: 6). doi.org/10.3389/fmars.2021.736604	<i>Front. Mar. Sci.</i>
2021	P. Chambault , et al. A methodological framework to predict the individual and population-level distributions from tracking data. 11(3). 1432-1445. (IF: 6.5, cites: 12). doi.org/10.1111/ecog.05436	<i>Ecography</i>
2021	P. Chambault , et al. Predicting seasonal movements and distribution of the sperm whale using machine learning algorithms. 44(5). 766-777. (IF: 3.17, cites: 25). doi.org/10.1002/ece3.7154	<i>Ecol. Evol.</i>
2020	P. Chambault , et al. The impact of rising sea temperatures on an Arctic top predator, the narwhal 10(1). 1-10. (IF: 4.996, cites: 35). doi.org/10.1038/s41598-020-75658-6	<i>Sci. Rep.</i>
2020	F. Siegwalt, [...], P. Chambault , et al. High site fidelity of immature green turtles (<i>Chelonia mydas</i>) to their foraging grounds revealed by satellite tracking and capture-mark-recapture and consequences for key marine conservation areas. (IF: 5.99, cites: 33). doi.org/10.1016/j.biocon.2020.108742	<i>Biol. Conserv.</i>
2020	P. Chambault , et al. Contrasted habitats and individual plasticity drive the fine scale movements of juvenile green turtles in coastal ecosystems. 8(1). 1-15. (IF: 3.6, cites: 24). 10.1186/s40462-019-0184-2	<i>Mov. Eco.</i>
2019	M. Bonola, [...], P. Chambault , et al. Fine scale geographic residence and annual primary production drive body condition of wild immature green turtles (<i>Chelonia mydas</i>) in Martinique Island (Lesser Antilles). 8(12). (IF: 2.33, cites: 8). 10.1242/bio.048058	<i>Bio. Open</i>
2019	P. Chambault , et al. Swirling in the ocean: immature loggerhead turtles seasonally target old anticyclonic eddies at the fringe of the North Atlantic gyre. 175. 345-358. (IF: 3.95, cites: 23). 10.1016/j.pocean.2019.05.005	<i>Prog. Oceanogr.</i>
2018	P. Chambault , et al. Distribution and composition of floating litter off the Azores archipelago and Madeira (NE Atlantic) using opportunistic surveys. 141. 225-232. (IF: 3.13, cites: 34). 10.1016/j.marenvres.2018.09.015	<i>Mar. Environ. Res.</i>
2018	P. Chambault , et al. Connecting paths between juvenile and adult habitats in the Atlantic green turtle using genetics and satellite tracking. 8(24). 12790-12802. (IF: 3.17, cites: 30). doi.org/10.1002/ece3.4708	<i>Ecol. Evol.</i>
2018	P. Chambault , et al. Sea surface temperature predicts the movements of an Arctic cetacean: the bowhead whale. 8(1). 9658. (IF: 4.996, cites: 78). 10.1038/s41598-018-27966-1	<i>Sci. Rep.</i>
2018	M. Nivière, P. Chambault , et al. Identification of marine key areas across the Caribbean to ensure the conservation of the critically endangered hawksbill turtle. 223. 170-180. (IF: 5.99, cites: 31). 10.1016/j.biocon.2018.05.002	<i>Biol. Conserv.</i>
2017	P. Chambault , et al. The Gulf Stream frontal system: A key oceanographic feature in the habitat selection of the leatherback turtle? 123. 35-47. (IF: 2.955, cites: 27). 10.1016/j.dsr.2017.03.003	<i>Deep. Sea Res. I</i>
2016	P. Chambault , et al. Habitat use and diving behaviour of gravid olive ridley sea turtles under riverine conditions in French Guiana. 165. 115-123. (IF: 2.96, cites: 8). 10.1016/j.jmarsys.2016.10.005	<i>J. Mar. Syst.</i>
2016	P. Chambault , et al. Inter-nesting behavioral adjustments of green turtles to an estuarine habitat in French Guiana. 555. 235-248. (IF: 2.915, cites: 28). 10.3354/meps11813	<i>Mar. Ecol. Prog. Ser.</i>
2016	P. Chambault , et al. The influence of oceanographic features on the foraging behavior of the olive ridley sea turtle <i>Lepidochelys olivacea</i> along the Guiana coast. 142. 58-71. (IF: 3.95, cites: 48). 10.1016/j.pocean.2016.01.006	<i>Progr. Oceanogr.</i>
2015	P. Chambault , et al. Dispersal and diving adjustments of the green turtle <i>Chelonia mydas</i> in response to dynamic environmental conditions during post-nesting migration. 10(9). e0137340. (IF: 3.240, cites: 24). 10.1371/journal.pone.0137340	<i>PloS one</i>
2015	M. Baudouin, B. de Thoisy, P. Chambault , et al. Identification of key marine areas for conservation based on satellite tracking of post-nesting migrating green turtles (<i>Chelonia mydas</i>). 184. 36-41. (IF: 5.99, cites: 59). 10.1016/j.biocon.2014.12.021	<i>Biol. Conserv.</i>

Conferences

Mar. 2024	P. Chambault , The nightscape of the Arctic winter shapes the diving behavior of a marine predator. BLS8 th International Biologging Society.	Poster-JAPAN
Mar. 2022	P. Chambault , Ecological trap or favorable habitat? First evidence that immature sea turtles may survive at their range-limits in the North-East Atlantic. International Sea Turtle Symposium.	Talk-Virtual
Dec. 2021	P. Chambault , Narwhals in a sauna. NAMMCO Working Group on Narwhal in West Greenland (invited speaker).	Talk-CANADA
Oct. 2021	P. Chambault , Arctic whales in warming waters: demographic and behavioural consequences? BLS7 th International Biologging Society (invited speaker).	Plenary-Virtual
Dec. 2019	P. Chambault , Sea surface temperature drives narwhals' movements in the Arctic. World Marine Mammal Conference.	Oral-SPAIN
Nov. 2018	P. Chambault , Argos and genetics reveal connecting paths between juvenile and adult habitats in green turtles. Argos conference. Collecte Localisation Satellite.	Oral-FRANCE
Oct. 2016	P. Chambault , Distribution and diving behavior of the French Guianese sea turtles satellite tracked via Argos. Argos conference. Collecte Localisation Satellite.	Oral-FRANCE
Mar. 2016	P. Chambault , The influence of oceanographic features on the foraging behavior of the olive ridley sea turtle <i>Lepidochelys olivacea</i> along the Guiana coast. 36 th Annual Sea turtle Symposium.	Oral-PERU
Mar. 2016	P. Chambault , Developmental habitat and migratory pathways: identifying key areas to protect future breeding green turtles across the Caribbean. 36 th Annual Sea turtle Symposium.	Poster-PERU
May. 2015	P. Chambault , Dispersal and diving adjustments of green turtles in response to dynamic environmental conditions during post-nesting migration. 11 th Ecology & Behaviour meeting.	Oral-FRANCE
Apr. 2015	P. Chambault , Post-nesting migration of green turtles to their foraging grounds: Dispersal and diving adjustments in response to dynamic environmental conditions. 35 th Annual Sea turtle Symposium.	Oral-TURKEY
Apr. 2015	P. Chambault , Migration over the Guyana continental shelf: distribution and diving behavior in relation to mesoscale features. 35 th Annual Sea turtle Symposium.	Poster-TURKEY

Awards & Honours

2021	Marie Skłodowska-Curie grant , Global fellowship of 3 years, €289,000	DENMARK-USA
2018	Young researchers award , Foundation for the Research on Biodiversity (FRB)	FRANCE
2016	Finalist - 1st place , Regional final of the "3 minutes thesis" (3MT®)	FRANCE
2016	Finalist - 1st place , Best poster at the 36 th International Sea Turtle Symposium	PERU
2016	Finalist , Travel grant for the 36 th International Sea Turtle Symposium	PERU

Skills

Programming	R, R Markdown, Quarto, LaTeX, ArcGIS
Writing	Grant applications, scientific papers (23 published), reporting
Communication	Lectures, interviews, plenary at conferences, finalist of the 3 minute thesis contest
Language	French (native), English (fluent, TOEFL), Spanish & Portuguese (beginner)

Teaching & Supervising

PhD students	2
MSc students	8
Lectures	R lessons on data wrangling (2017), R lessons on spatial data (May 2023, UCSC)

Fieldwork Experiences

Aerial survey for abundance estimates of cetaceans

GREENLAND

GINR

Au-Sep 2024

- Species identification and counting of whales and dolphins from a Twin Otter aircraft over Greenland.

Thermal biology of captive whales and dolphins

USA

UCSC & Georgia Aquarium

Apr 2022-Nov 2023

- Tag development, tag assembling, experimental design, data collection from bottlenose dolphins and beluga whales.

Tagging of bowhead whales

GREENLAND

GINR

May 2022-May 2023

- Bowhead whale tagging from boats in Qeqertarsuaq (West Greenland).

Tagging of harbour porpoises

GREENLAND

GINR

July 2022

- Harbour porpoises capture using nets and tagging in Maniitsoq (Southwest Greenland).

Tagging of juvenile green turtles

MARTINIQUE

DEPE-IPHC

Jun. and Oct. 2016

- Turtle capture at-sea, measurements (length, width and body mass), tagging (flipper and satellite tags).

Tagging of adult female sea turtles

FRENCH GUIANA

DEPE-IPHC

Jun. 2016

- Nocturnal beach patrols (7h duration), measurements (length, width), eggs counting.

Photo-identification of bottlenose dolphins

WESTERN AUSTRALIA

Murdoch University

Apr-Jun. 2012

- Boat surveys, photographs of dorsal fins.

References

Philippe Gaspar

OCEANOGRAPHER

gaspar.philippe@gmail.com

FRANCE

- Mercator Ocean International, CLS

Mads Peter Heide-Jørgensen

PROFESSOR

mhj@ghs.dk

DENMARK

- Greenland Institute of Natural Resources, Copenhagen, Denmark

Terrie Williams

PROFESSOR

tmwillia@ucsc.edu

UNITED STATES of AMERICA

- University of California Santa Cruz, Santa Cruz

Extracurricular Activities

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| Art | Wildlife photography, drawing, painting (alcohol inks) |
| Water | Scuba diving (PADI Advanced Open Water and CMAS level II, 40 dives), snorkelling |
| Indoor | Vinyasa yoga (twice a week), bouldering |
| Outdoor | Skiing (since I am 4 years old!), Horse riding (dressage and jumping for 12 years, 8 years in competition), hiking, travelling |