

# Damien Couespel

Post-Doctoral researcher

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## Current & previous positions

- From 2021 **Post-Doc, NORCE Climate, Bergen, Norway**, COLUMBIA project which aims to constrain the large uncertainties in Earth system model projections with a big data approach..
- 2018-2021 **Post-Doc, Sorbonne Université, Paris, France**, Laboratoire d'Océanographie et du Climat : Expérimentations et Approches Numériques (LOCEAN-IPSL).

## Education

- 2014 – 2018 **PhD, Sorbonne Université, Paris, France**, Environmental Sciences, supervised by M. Lévy & P. Klein. Dissertation title : Ocean deoxygenation in the 21st century: influence of meso and sub-meso scale processes.
- 2013 – 2014 **MS, Sorbonne Université, Paris, France**, Sciences of the Universe, Environment, Ecology: Ocean, Atmosphere, Climate and Space Observations.
- 2010 – 2014 **Engineering degree, ENSTA ParisTech, Paris, France**.
- 2012 – 2013 **Technical University of Denmark, Copenhagen, Denmark**.  
Master's courses in oceanography, meteorology, marine ecological modelling

## Publications

- 2021 **Couespel, D.**, Lévy, M., & Bopp, L. *Decline Of Ocean Productivity Under Global Warming Halved With Eddy-Resolving Model*. Biogeoscience. In revision. <https://doi.org/10.5194/bg-2021-14>
- 2019 **Couespel, D.**, Lévy, M., & Bopp, L. (2019). *Major Contribution of Reduced Upper Ocean Oxygen Mixing to Global Ocean Deoxygenation in an Earth System Model*. Geophysical Research Letters, 2019GL084162. <https://doi.org/10.1029/2019GL084162>
- 2019 Kwiatkowski, L., Naar, J., Bopp, L., Aumont, O., Defrance, D., & **Couespel, D.** (2019). *Decline in Atlantic Primary Production Accelerated by Greenland Ice Sheet Melt*. Geophysical Research Letters, 46(20), 11347?11357. <https://doi.org/10.1029/2019GL085267>
- 2016 Kiørboe, T., Gonçalves, R. J., **Couespel, D.**, van Someren Gréve, H., Saiz, E., & Tiselius, P. (2016). *Reply to comment: Prey perception in feeding-current feeding copepods*. Limnology and Oceanography, 61(4), 1169?1171. <https://doi.org/10.1002/lno.10293>
- 2015 Gonçalves, R., van Someren Gréve, H., **Couespel, D.**, & Kiørboe, T. (2014). *Mechanisms of prey size selection in a suspension-feeding copepod, Temora longicornis*. Marine Ecology Progress Series, 517, 61?74. <https://doi.org/10.3354/meps11039>

## Communications

- 2020 Couespel D., Lévy M., Bopp L. *Increased resolution lessen climate change induced primary production decline in an idealized simulation of the North Atlantic/Pacific*. Oral presentation. Ocean Sciences Meeting 2020. San Diego, CA, USA.
- 2019 Couespel D., Lévy M., Bopp L. *Future changes in oxygen ventilation pathways related to the 21st century deoxygenation*. Poster. EGU 2019. Vienne, Autriche.
- 2017 Couespel D., Lévy M., Klein P., Talandier C., Bopp L. *Contribution Of Meso And Sub-Mesoscale To O2 Subduction In The North Atlantic*. Poster. EGU 2017. Vienne, Autriche.
- 2016 Couespel D., Lévy M., Klein P., Talandier C. *Response of the North Atlantic Ocean carbon sink to climate change : role of sub-mesoscale processes*. Oral presentation. 2016 International Liege Colloquium : Submesoscale Processes: Mechanisms, Implications and new Frontiers. Liège, Belgique.