

Zoé Koenig

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Birth date : 27 May 1991 (34)

Education

2025-2026	UNIPED600 Course at UiT the Arctic University of Norway. Pedagogy course on the supervision of PhD students.
2017	PhD in physical oceanography, LOCEAN, UPMC, Paris, France
2014	Diploma from Ecole Normale Supérieure (Paris, France) in Geosciences.
2013	Master OACOS (Ocean, Atmosphere, Climate, Satellite observations). With high honors. UPMC, Ecole Normale Supérieure, Paris, France.
2011	Bachelor in physics, UPMC and Ecole Normale Supérieure in Paris, France
2010-2014	Student at École Normale Supérieure in Paris (admission ranking : 4), France.
2008-2010	2-year intensive studies 'Classe Préparatoire' in BCPST (Biology, Chemistry, Physics, Geosciences), Henri IV, Paris, France

Research experiences

04/2025-Present	Researcher position at UiT the Arctic University of Norway, Tromsø, Norway NFR early career project DIAMOND (PI) (Sea ice leads dynamics in the Arctic and their impact on primary production)
03/2024-03/2025	Researcher position (50%) at the Norwegian Polar Institute, Tromsø, Norway SUDARCO project. Transpolar drift and stratification <u>Advisor:</u> Paul Dodd (NPI)
12/2022 –03/2025	Postdoc at UiT the Arctic University of Norway, Tromsø, Norway BREATHE project (https://www.breathearctic.com/) Nutrient and oxygen turbulent fluxes at the sea ice-ocean interface in the Arctic from an eddy covariance system. <u>Advisor:</u> Karley Campbell (UiT)
09/2018-11/2022	Postdoc at University of Bergen, Geophysical Institute (2018-2020) and at the Norwegian Polar Institute, Tromsø, Norway (2020-Now) Nansen Legacy project (https://arvenetternansen.com/) Turbulence and mixing north of Svalbard and in the Barents Sea, from mooring, glider, AUV and hydrographic campaign data. <u>Advisor:</u> Ilker Fer (UiB) and Arild Sundfjord (NPI)
11/2017-08/2018	Postdoc at LOCEAN UPMC, Paris, France. Founded by Pan-Arctic Options – Belmont forum (http://panarcticoptions.org). Small-scale dynamics north of Svalbard from glider observations. <u>Advisor:</u> Christine Provost (LOCEAN, Paris)
09/2014-10/2017	PhD at LOCEAN Properties and circulation of Atlantic Waters north of Svalbard in a changing Arctic. The PhD was based on observations from the IAOOS platforms deployed during the N-ICE2015 expedition and from moorings from the Damocles project. The observations were combined with the analysis of high resolution model outputs. <u>Advisor:</u> Christine Provost (LOCEAN, Paris), Gilles Garric (Mercator-Ocean, Toulouse).
03/2013-08/2014	Master thesis at LOCEAN, UPMC, FRANCE

Computation and analysis of a 20-year long volume transport time series of the Antarctic Circumpolar Current in Drake Passage from 3-year-long mooring data and 20-year-long altimetry data.

Advisor: Christine Provost (LOCEAN, Paris)

03/2012-07/2012

Internship at Scripps Institution of Oceanography, San Diego, USA

Seasonal to decadal variability of the surface ocean layer in Drake Passage from repeated transects of ship ADCP

Advisor: Teresa Chereskin (Scripps, USA)

06/2011

Bachelor internship 3 LOCEAN, UPMC, Paris, FRANCE

Current estimates in the Ummannaq Bay, Greenland from satellite images (MODIS)

Advisor: Christine Provost (LOCEAN, Paris)

Teaching and supervision

Teaching

2025 & 2026

Course responsible BIO 2516 (Ocean Climate, UiT)

2023-2025

Lecturer at UiT

BIO-3015 Oceanography lectures (Master level, UiT)

BIO-2516 Ocean dynamics lectures (Bachelor level, UiT)

BIO-1501 and FSK-1120 Oceanography lectures (Bachelor level, UiT)

05/2023

Instructor in the BREATHE field school

General Arctic Oceanography, Atmosphere-ice-ocean interactions and oceanography in the field.

2020

Lecturer at the Nansen Legacy winter school

Stratification in the Arctic Ocean

Supervision

2025

Main Supervision of 1 PhD student (Anna Miettinen, AMB) and 1 Master Student (Sanna Heiland, AMB)

2024-2026

Member of the PhD committee of Francois Challet, LOCEAN, France

2024

Main Supervision of 1 Bachelor Student (Claudia Altable, AMB)

2017-2023

Co-Supervision of 5 master students (LOCEAN, Paris and UiB, Bergen) and 1 PhD student (UiB, Bergen)

Grants and awards

2026

Aurora Outstanding Program at UiT (5kNOK)

Training in communication, innovation and in proposal writing for the European Research Council.

2025-2029

NFR project 352217 for early career scientists (8MNOK): DIAMOND (Sea ice Lead dynamics in the Arctic and their impact on primary production). **PI**

2025

LEAD second user application for 2 persons on R/V Polarstern during PS149 (July-August 2025). **PI**

2025

EGC-Sources cruise application on RV Polarstern (PS150). Co-PI (Sept-Oct 2025)

2018-2022

Several travel grants to different conferences (Bepsii meeting, Ocean Science, Polar Marine Science, MOSAiC workshop, ASOF conference...)

2019

Runner-up at the PhD award of the CNFGG, Paris, France

2018

PhD award from the chancellery of Paris, France (10kEuros)

2018

PODS X (Physical Oceanography Dissertation Symposium), Hawaii, USA.

2017

Grant L'Oreal-Unesco, For Women in Science (15kEuros)

2014-2017

PhD grant from Ecole Normale Supérieure, Paris, France

06-07/2025	PS149 Contrast RV Polarstern 61d 35 days of sea ice work. Team leader of the physical oceanography (8 persons)
05/2025	Teaching cruise RV Helmer Hansen 6d Cruise leader. CTD in fjords around Tromsø and teaching physical oceanography
07/2024	Cruise in Nansen and Amundsen Basin RV Kronprins Haakon 25d 3 ice stations of 2 days each. Turbulence measurements
01/2024	Cruise between Cape Town and the Fimbulisen ice shelf (Antarctica) 35d Cargo ship Silver Arctic In charge of the physical oceanography program
05/2023	Cruise North of Svalbard, RV Kronprins Haakon 20d Oceanography instructor for the field school and science coordinator for the BREATHE project. In charge of the physical oceanography on board.
10 /2022	Cruise in the Barents Sea. RV Kristine Bonnevie 15 d. Turbulence measurements.
07-08/2022	Cruise in Nansen and Amundsen Basin RV Kronprins Haakon 35d 3 ice stations of 2 days each. Turbulence measurements
02/2022	Cruise north of Svalbard RV Kronprins Haakon 20d Turbulence measurements.
08/2021-09/2021	Cruise in the Nansen and Amundsen Basin. RV Kronprins Haakon 30d In charge of the physical oceanography program.
02.2021	Cruise in the Barents Sea. RV Kronprins Haakon 20d Turbulence measurements
08/2020-10/2020	MOSAIC leg 5 (https://mosaic-expedition.org/) RV Polarstern 90 d. Team leader of Team Ocean. In charge of the physical oceanography program. (4 persons)
05/2019	Instrument test cruise (Alesund, Norvège) RV Kristine Bonnevie 5d Test of the VMP uprider system to use on MOSAiC expedition.
09/2018	Cruise north of Svalbard RV Kronprins Haakon 15d Mooring deployment and turbulence measurements.
06/2018	Cruise north of Svalbard. RV Kristine Bonnevie 15d Process study from current and turbulence data.
04/2018	Ice camp at the North Pole (Barneo). 10d. Chief scientist for the deployment of 2 IAOOS platforms equipped with biogeochemistry sensors, a snow buoy and an IMB for the AWI.
07/2017	Cruise north of Svalbard. RV Lance. 15d. Responsible for the deployment and recovery of a SeaExplorer glider.
04/2017	Ice camp at the North Pole (Barneo) 10d. Chief scientist for the deployment of 2 IAOOS platforms equipped with biogeochemistry sensors.
08/2015	Cruise in the Bering Strait and the Chukchi Sea Campagne. RV Araon 20d. Responsible for the deployment of 2 IAOOS platforms.
04/2014	Leg 3 of N-ICE2015 expedition north of Svalbard. RV Lance 25d. IAOOS platforms, CTD, LADCP, MSS, ADCP.
10-11/2014	Opportunistic expedition onboard the sailboat Australis (On the shoulder of Shackleton). 40d Expedition between Drake Passage and South Sandwich Islands. Deployment of surface drifters and Argo profilers. Outreach project with APECS France (zoe-en-expedition.blogspot.fr).
06/2013	Cruise in the mediterranean Sea (MOOSE project), RV Thetys 5d. CTD and water sampling.

Conferences

Arctic Ocean Dynamics Workshop (2025)
Gordon Research seminar and conference Polar marine science (2025, 2023)
BEPSII annual meeting (2025, 2023)
ARCTOS annual meeting (2026, 2025, 2024)
Arctic Frontiers (2024, 2021)
IUGG (2023). **Co-convenor of a session**
MOSAIC Workshop (2023, 2022) **Co-convenor of a session**
A-DBO annual meeting (2025, 2023)
Nansen Legacy symposium (2023)
ASOF meeting (2022, 2019, 2018, 2017)
EGU meeting (2022, 2021, 2020, 2014)
Nansen Legacy Annual meeting (2022, 2021, 2020, 2019, 2018)
Ocean Science meeting (2026, 2020, 2018, 2016, 2014)
Polar18 meeting (2018)
Ice-Arc FP European project General Assembly (2017, 2016)
FAMOS meeting (2016)
N-ICE2015 Meeting (2016, 2015)

Workshops and research stays

Workshop at UNIS, Longyearbyen, Svalbard, Norway (2019)
2-week research stay at UNIS, Longyearbyen, Svalbard, Norway (2022)
3-week research stay at NPI, Tromsø, Norway (2018)
1-week research stay at Mercator Ocean, Ramonville Saint Agne, France (2017, 2016)

Outreach

2026	-Campbell C., Braakmann-Folgmann A., Koenig Z. , & ... & Lange B., (2026) Tending the hidden gardens of the frozen ocean, <i>Fram Forum</i> Nå vet forskerne mer om denne viktige havstrømmen i Polhavet, Forskning.no Norges største forskningsprosjekt et offisielt i gang, High north news
2025	Totally Cooked Episode 10 . How will an ice-free Arctic change our planet (ARC Centre of Excellence, Australia) Article Der Spiegel on the Polarstern 149 cruise -Dodd, P., Fransson, A., Granskog, M., Koenig, Z. &...& De Lucia V. (2025) Exploring observation-based management areas for the Central Arctic Ocean, <i>Fram Forum</i> -Koenig Z. , Muilwik M., Foss Ø., ... & Renner A. (2025) Unveiling environmental and phytoplankton dynamics in the Northern Barents Sea. <i>Fram Forum</i>
2024	-Lenss, M., Dalman, L., Gächter, M., Koenig, Z. , McKay, R., Osanen, J., ... & Campbell, K. exploring the world of sea-ice algae in polar regions. <i>Frontiers for young minds</i> .
2023	Speaker during the APECS side event of the Svalbard conference in Oslo: 'logistic in the polar regions'
2022-2023	Participation in the different outreach channels of the Norwegian Polar Institute: Npolar.no: Polhavstoktet 2022 Turbulence measurements Outreach about gliders and in the Fram Strait Instagram story + Instagram reel

2021	Instagram and blogpost within the framework of the Nansen Legacy project
2020	Interview for radio show and podcasts on the MOSAiC expedition (icepod).
2020	Blog on forskning.no during the MOSAiC expedition.
2018	Participation in the american documentary ‘True North’, Verizon TYT, dirigé par Michelle A. Boley.
2017	With the grant L’Oreal Unesco ‘For Women in Science’, I have been interviewed by several french radios and magazines to share my experience as an early-career female researcher (Madame Figaro, France Inter radio)
2015-2016	Organisation of the science fare for the LOCEAN, Paris
2014	Outreach project around the expedition ‘On the shoulder of Shackleton’ in collaboration with APECS France. Webinars, blog
	Participation to the documentary: ‘ On the shoulder of Shackleton ’

Projects, working groups and associations

On-going

- NFR research project (RCN 352217) **DIAMOND** : PI
- **ARCTOS**: representative of UiT within the secretariat (previously postdoc representative)
- **EU Project POLARIN** (Polar Research Infrastructure Network): member of the scientific liaison panel that evaluate the proposals.
- NFR research project **BREATHE** (RCN 325405): member

Finished

- **EGC-Sources** cruise proposal on Polarstern 2025 : co-PI
- **LEAD** second user proposal for 2 berths on board R/V Polarstern in July-August 2025: PI
- **SUDARCO** Fram Center project: member
- **MOSAIC field project**: associate member
- NFR research project **Nansen Legacy** : member
- NFR research project **AROMA** : member
- FP7 project **Ice-Arc** : member
- NPI project **N-ICE2015** : associate member
- Representative of the PhD within the PhD school in Paris, France

Reviewer activity

Journal of Geophysical Research, Nature Geoscience, Journal of Physical Oceanography, Nature Scientific Data, Ocean Sciences

Languages, informatics, hobbies and license

Informatics: Training in Git, Python and R

Extensive knowledge of Matlab, Latex, OpenOffice

Languages: French (mother tongue), English (fluent) and Norwegian (B1)

Hobbies: Sailing, Climbing, Music (Clarinet)

License, diploma: driving and boat licenses, cruise leader certificate for IMR Research Vessels (recently expired), survival suit training, first aid training, seaman certificate and rifle permit for Svalbard.

References

Karley Campbell: Postdoc advisor at UiT; Karley.linn.campbell@uit.no; +47 77 62 52 20

Ilker Fer: Postdoc advisor at UiB; ilker.fer@uib.no; +47 555 82 580

Christine Provost: PhD supervisor in Paris; +33 6 87 10 11 04

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Submitted

McKay R., **Koenig Z.**, Duarte P., Gradinger R., Else B., Osanen J. and Campbell K., Under-ice Ocean mixing influences sea ice net community production. *Submitted to Elementa: Science of the anthropocene*

Peer Reviewed Publications

2026

1. **Koenig Z.**, Granskog M., Muilwijk M., Randelhoff A., Renner A., Chierici M., Fransson A., Goncalves-Araujo R. and Dodd P., Identifying the extent of river-influenced waters of the Transpolar Drift with in-situ measurements of dissolved organic matter fluorescence and seawater density (in press) *Journal of Geophysical Research: Oceans*

2025

2. Wold, A., Hop, H., Svensen, C., Søreide, J. E., Majaneva, S., **Koenig, Z.**, ... & Kwasniewski, S. (2025). Zooplankton communities across the Nansen and Amundsen Basins of the Arctic Ocean. *ICES Journal of Marine Science*, 82(10), fsaf184. Doi: [10.1093/icesjms/fsaf184](https://doi.org/10.1093/icesjms/fsaf184)
3. Kohlbach, D., Fransson, A., Amargant-Arumi, M., Assmann, K. M., Assmy, P., Bratbak, G., ... & Bluhm, B. A. (2025). Nansen and Amundsen basins: Gradients of physico-chemical properties and biota composition with implications for future resource management of the central Arctic Ocean. *Elem Sci Anth*, 13(1), 00016. Doi: [10.1525/elementa.2024.00016](https://doi.org/10.1525/elementa.2024.00016)

2024

4. Kolås, E. H., Baumann, T. M., Skogseth, R., **Koenig, Z.**, & Fer, I. (2024). Circulation and hydrography in the northwestern Barents Sea: Insights from recent observations and historical data (1950–2022). *Journal of Geophysical Research: Oceans*, 129(8), e2023JC020211. doi: [10.1029/2023JC020211](https://doi.org/10.1029/2023JC020211)
5. Schulz, K., **Koenig, Z.**, Muilwijk, M., Bauch, D., Hoppe, C. J., Droste, E. S., ... & Granskog, M. A. (2024). The Eurasian Arctic Ocean along the MOSAiC drift in 2019–2020: an interdisciplinary perspective on physical properties and processes. *Elem Sci Anth*, 12(1), 00114. Doi: [10.1525/elementa.2023.00114](https://doi.org/10.1525/elementa.2023.00114)
6. **Koenig Z.**, Lind S., Lundesgaard Ø., Muilwijk M., Sandven H., Assmy P., Assmann K., Chierici M., Fransson A., Gerland S., Jones E., Renner A. and Granskog M. (2024) From winter to late summer in the northwestern Barents Sea shelf: Impacts of seasonal progression of sea ice and upper ocean on nutrient and phytoplankton dynamics. *Progress in Oceanography* doi: [10.1016/j.pocean.2023.103174](https://doi.org/10.1016/j.pocean.2023.103174)

2023

7. **Koenig Z.**, Fer I., Chierici M., Fransson A., Jones E. and Kolås E. (2023) Diffusive and advective fluxes of inorganic nutrients and dissolved inorganic carbon in the Barents Sea in autumn. *Progress in Oceanography* doi: [10.1016/j.pocean.2023.103161](https://doi.org/10.1016/j.pocean.2023.103161)

2022

8. **Koenig Z.**, Kalhagen, K., Kolås, E., Fer, I. and Cottier, F. (2022) Atlantic Water properties, transport, and heat loss from mooring observations north of Svalbard, *Journal of Geophysical Research : Oceans*. 127(8) doi : [10.1029/2022JC018568](https://doi.org/10.1029/2022JC018568)

9. Fer, I., Baumann T., **Koenig Z.**, Muilwijk M. and Tippenhauer S., Upper-ocean turbulence structure and ocean-ice drag coefficient estimates using an ascending microstructure profiler during the MOSAiC drift (2022), *Journal of Geophysical Research: Oceans*. 127(9) doi : [10.1029/2022JC018751](https://doi.org/10.1029/2022JC018751)
10. Schulz K., Mohrholz V., Fer I., Janout M., Hoppmann M., Schaffer J. and **Koenig Z.** A full year of turbulent microstructure measurements in the Arctic Ocean 2019-2020. (2022) *Scientific data*, 9(1), 1-11 doi : [10.1038/s41597-022-01574-1](https://doi.org/10.1038/s41597-022-01574-1)
11. **Koenig Z.**, Meyer, A., Provost, C., Sennéchaël, N., Sundfjord, A., Beguery, L. and Gascard, JC. Atlantic Water circulation and properties northwest of Svalbard during anomalous southerly winds (2022), *Journal of Geophysical Research : Oceans*. 127(6) doi : [10.1029/2021JC018357](https://doi.org/10.1029/2021JC018357)
12. Artana C., Provost C., **Koenig Z.**, Athanase M. and Asgari A., Atlantic Water inflow through the Yermak Pass Branch : evolution since 2007, (2022) *Journal of Geophysical Research : Oceans* 127(2) doi : [10.1029/2021JC018006](https://doi.org/10.1029/2021JC018006)
13. Kawaguchi Y., **Koenig Z.**, Nomura D., Hoppman M., Inoue J., Fang Y-C, Schulz K., Gallagher M., Katlein C., Nicolaus M. and Rabe M., Turbulent Mixing During Late Summer in the Ice–Ocean Boundary Layer in the Central Arctic Ocean: Results From the MOSAiC Expedition. (2022) *Journal of Geophysical Research : Oceans* 127, doi : [10.1029/2021JC017975](https://doi.org/10.1029/2021JC017975)
14. Rabe, B., Heuze C., Regnery and the Ocean Team (including **Koenig Z.**) Overview of the MOSAiC expedition : Physical Oceanography. (2022) *Elem Sci Anth*, 10(1), 00062. doi : [10.1525/elementa.2021.00062](https://doi.org/10.1525/elementa.2021.00062)

2021

15. **Koenig, Z.**, Kolås, E. H. and Fer, I. (2020). Structure and drivers of ocean mixing north of Svalbard in summer and fall 2018. *Ocean Science*, 1-28. doi : [10.5194/os-17-365-2021](https://doi.org/10.5194/os-17-365-2021)
16. Fossum, T. O., Norgren, P., Fer, I., Nilsen, F., **Koenig, Z.** and Ludvigsen, M.. (2021) Adaptive Sampling of Surface Fronts in the Arctic Using an Autonomous Underwater Vehicle. *IEEE Journal of Oceanic Engineering*, vol. 46 (4). doi : [10.1109/JOE.2021.3070912](https://doi.org/10.1109/JOE.2021.3070912)

2020

17. Kolås, E. H., **Koenig, Z.**, Fer, I., Nilsen, F., and Marnela, M. (2020). Structure and transport of Atlantic Water north of Svalbard from observations in summer and fall 2018. *Journal of Geophysical Research: Oceans*, 125(9), doi : [10.1029/2020JC016174](https://doi.org/10.1029/2020JC016174).
18. Fer, I., **Koenig, Z.**, Kozlov, I. E., Ostrowski, M., Rippeth, T. P., Padman, L., Bosse, A. and Kolås, E. (2020). Tidally forced lee waves drive turbulent mixing along the Arctic Ocean margins. *Geophysical Research Letters*, 47(16), doi : [10.1029/2020GL088083](https://doi.org/10.1029/2020GL088083)
19. **Koenig, Z.**, Fer, I., Kolås, E., Fossum, T. O., Norgren, P., and Ludvigsen, M. (2020). Observations of Turbulence at a Near Surface Temperature Front in the Arctic Ocean. *Journal of Geophysical Research: Oceans*, 125(4), doi : [10.1029/2019JC015526](https://doi.org/10.1029/2019JC015526).
20. Boles, E., Provost, C., Garçon, V., Bertosio, C., Athanase, M., **Koenig, Z.**, and Sennéchaël, N. (2020). Under Ice Phytoplankton Blooms in the Central Arctic Ocean: Insights From the FirstBiogeochemical IAOOS Platform Drift in 2017. *Journal of Geophysical Research: Oceans*, 125(3), doi : [10.1029/2019JC015608](https://doi.org/10.1029/2019JC015608).

2019

21. Athanase M., Sennéchaël N., Garric G., **Koenig Z.**, Boles E. and Provost C. (2019) New hydrographic Measurements of the Upper Arctic Western Eurasian Basin in 2017 Reveal Fresher Mixed Layer and Shallower Warm Layer Than 2005–2012 Climatology. *J. Geophys. Res* Doi : [10.1029/2018JC014701](https://doi.org/10.1029/2018JC014701).

2018

22. **Koenig Z.**, Meyer A., Provost C., Sennéchaël N., Sundfjord A., Beguery L., Athanase M. and Gascard J.-C. (2018) Cooling of the West Spitsbergen Current by shelf-origin cold core lenses. *J. Geophys. Res.: Oceans*, doi: [10.1029/2018JC014463](https://doi.org/10.1029/2018JC014463).
23. Artana C., Lellouche J.-M., Park Y.-H., Garric G., **Koenig Z.**, Sennéchaël N., Ferrari R., Piola A., Saraceno M. and Provost C. (2018) Fronts of the Malvinas Current System: surface and subsurface expressions revealed by Satellite Altimetry, Argo Floats and Mercator Operational Model outputs. *J. Geophys. Res. Ocean*, Doi : [10.1029/2018JC013887](https://doi.org/10.1029/2018JC013887)

2017

24. Artana C., Ferrari R., **Koenig Z.**, Piola A., Saraceno M. and Provost C. (2017) Malvinas Current volume transport at 41°S : a 24-year long time series consistent with mooring data from 3 decades and satellite altimetry. *J. Geophys. Res. Ocean*, doi : [10.1002/2017JC013600](https://doi.org/10.1002/2017JC013600).
25. **Koenig Z.**, Provost C., Sennéchaël N., Garric G. and Gascard J.-C. (2017b) The Yermak Pass Branch, a major pathway of the Atlantic Water north of Svalbard? *J. Geophys. Res. Oceans*. Doi: [10.1002/2017JC013271](https://doi.org/10.1002/2017JC013271)
26. Provost C., Sennéchaël N., Miguet J., Itkin P., Rösel A., **Koenig Z.**, Villacieros-Robineau N. and Granskog M. (2017) Observations of flooding and snow-ice formation in a thinner Arctic sea ice regime during the N-ICE2015 campaign: influence of basal ice melt and storms . *J. Geophys. Res.: Oceans* Doi : [10.1002/2016JC012011](https://doi.org/10.1002/2016JC012011)
27. **Koenig Z.**, Provost C., Villacieros-Robineau N., Sennéchaël N., Meyer A., Lellouche J.-M. and Garric G. (2017a) Atlantic Waters inflow north of Svalbard: Insights from IAOOS observations and Mercator Ocean global operational system during N-ICE2015, *J. Geophys. Res.: Oceans* Doi: [10.1002/2016JC012424](https://doi.org/10.1002/2016JC012424).
28. Assmy P., Fernández-Méndez M., Duarte P., Meyer A., Randelhoff A., Mundy C.-J., Olsen L.M., Kauko H.M., Bailey A., Chierici M., Cohen L., Doulgeris A.P., Ehn J.K., Fransson A., Gerland S., Hop H., Hudson S.R., Hughes N., Itkin P., Johnsen G., King J.A., Koch B.P., **Koenig Z.**, Kwasniewski S., Laney S.R., Nicolaus M., Pavlov A.K., Polashenski C.M., Provost C., Rösel A., Sandbu M., Spreen G., Smedsrud L.H., Sundfjord A., Taskjelle T., Tatarek A., Wiktor J., Wagner P.M., Wold A., Steen H. and Granskog M.A. (2017). Leads in Arctic pack ice enable early phytoplankton blooms below snow-covered sea ice. *Scientific Reports*, 7. Doi: [10.1038/srep40850](https://doi.org/10.1038/srep40850).
29. Meyer A., Sundfjord A., Fer I., Provost C., Villacieros-Robineau N., **Koenig Z.**, Onarheim I.H., Smedsrud L.H., Duarte P., Dodd P.A., Graham R.M., Schmidt S. and Kauko H.M. (2017) Winter to summer oceanographic observations in the Arctic Ocean north of Svalbard. *J. Geophys. Res.: Oceans* Doi: [10.1002/2016JC012391](https://doi.org/10.1002/2016JC012391).

2016

30. **Koenig Z.**, Provost C., Villacieros-Robineau N., Sennéchaël N. and Meyer A. (2016b) Winter ocean-ice interactions under thin sea ice observed by IAOOS platforms during N-ICE2015: Salty surface mixed layer and active basal melt, *J. Geophys. Res. : Oceans* Doi : [10.1002/2016JC01219](https://doi.org/10.1002/2016JC01219).
31. Artana C., Ferrari R., **Koenig Z.**, Saraceno M., Piola A. and Provost C. (2016) Malvinas Current variability from Argo floats and satellite altimetry. *J. Geophys. Res.:Oceans* Doi: [10.1002/2016JC011889](https://doi.org/10.1002/2016JC011889).

32. **Koenig Z.**, Provost C., Park Y.H., Ferrari R. and Sennéchaël N. (2016a) Anatomy of the Antarctic Circumpolar Current through Drake Passage, *J. Geophys. Res. : Oceans* Doi [10.1002/2015JC011436](https://doi.org/10.1002/2015JC011436).

2014

33. **Koenig Z.**, Provost C., Ferrari R., Sennechaël N. and Rio M.H. (2014) Volume transport of the Antarctic Circumpolar Current. Part I : production and validation of a 20-year-long transport time series obtained from in situ and satellite observations. *J. Geophys. Res.:Oceans* Doi [10.1002/2014JC009966](https://doi.org/10.1002/2014JC009966).
34. Ferrari R., Provost C., Park Y.H., Sennéchaël N., **Koenig Z.**, Sekma H., Garric G. and Bourdallé-Badie R. (2014) Heat fluxes across the Antarctic Circumpolar Current in Drake Passage: mean flow and eddy contributions. *J. Geophys. Res.: Oceans* Doi [10.1002/2014JC010201](https://doi.org/10.1002/2014JC010201).

Datasets

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