

# Liste de publications de DGES

## Articles dans des revues avec comité de lecture

### A paraître

Roche, B. J., Barrière, J., Darchambeau, F., & Caudron, C. (2026). Hydroacoustic Observations during the 2021 Mount Nyiragongo dyke intrusion under Lake Kivu (IN REVIEW): evidence of lakebed degassing and blowout events. *Seismica*.

Caudron, C., Roche, B. J., Vandemeulebrouck, J., & Barrière, J. (2026). Data-based Reports; Hydroacoustic observations of volcanic degassing (IN REVIEW). *Volcanica*.

Xiao, F., Mo, H., Wang, J., Dobruszkes, F., & Xiong, M. (2025). Passenger winners and losers in the multi-airport system era: Evidence from Beijing tracking individual travel activities. *Transportation research. Part A, Policy and practice*, 199, 104596. doi:10.1016/j.tra.2025.104596

### 2026

Izeboud, M., Legrain, E., Tollenaar, V., Pallandre, F., Grosrenaud, N., Ardoin, L., Pattyn, F., Blard, P.-H., Gillain, M.-A., Debaille, V., Goderis, S., Pinto Morales, G. A., Pourkhorsandi, H., Fripiat, F., & Zekollari, H. (2026). Initial survey of blue ice areas for the recovery of old ice in the Sør Rondane mountains (Dronning Maud Land, East Antarctica). *Open Research Europe*, 6, 17. doi:10.12688/openreseurope.21562.1

### 2025

Safaierad, R., Israde-Alcántara, I., Rantala, M., Domínguez-Vázquez, G., Mohtadi, M., Schefuß, E., Tylmann, W., Francus, P., Mattielli, N., Metcalfe, S., & Fagel, N. (2025). Late Holocene hydroclimate variability and human–environment interactions in the Cuenca Oriental, Mexico: multiproxy evidence from Lake Alchichica. *Quaternary science reviews*, 369, 109618. doi:10.1016/j.quascirev.2025.109618

Coulon, V., Klose, A. K., Edwards, T. L., Turner, F., Pattyn, F., & Winkelmann, R. (2025). From short-term uncertainties to long-term certainties in the future evolution of the Antarctic Ice Sheet. *Nature communications*, 16(1). doi:10.1038/s41467-025-66178-w

Ardid, A., Dempsey, D., Caudron, C., Cronin, S., Kennedy, B. M. B., Girona, T., Roman, D., Miller, C., Potter, S., Lamb, O. D., Martanto, A., Çubuk-Sabuncu, Y., Cabrera, L., Ruiz, S., Contreras, R., Pacheco, J., Mora, M. M., & De Angelis, S. (2025). Ergodic seismic precursors and transfer learning for short term eruption forecasting at data scarce volcanoes. *Nature communications*, 16(1), 1758. doi:10.1038/s41467-025-56689-x

Reiss, M. C., Caudron, C., Hering, P., & Roman, D. (2025). Tremor signals reveal the structure and dynamics of the Oldoinyo Lengai magmatic plumbing system. *Communications Earth and Environment*, 6(1), 781. doi:10.1038/s43247-025-02916-8

Vannini, V., & Achten, W. (2025). Comparative life cycle assessment of industrial and artisanal spirulina production systems. *Science of the total environment*, 997, 180184.

Wang, J., Cao, J., Cao, W., Chen, C.-L., Dobruszkes, F., Ducruet, C., Fu, X., Goetz, A., Guo, J., Huang, J., Li, Y., Loo, B., Schwanen, T., Wang, L., Yang, D., Zhang, A., Zong, H.,

& Wu, Q. (2025). Transport geography: An interdisciplinary and cross-continent dialogue. *Dili yanjiu*, 44(7), 1733-1754.

Van Criekingen, M. (2025). Relever Charleroi. Appropriations de l'entrepreneuralisme urbain dans une ville périphérique. *Metropoles*,(36).

Schleussner, C.-F., Castro, P., Lesnikowski, A., Thomas, A., Weikmans, R., Roberts, T. J., Sagar, A. D., Klinsky, S., & Bernauer, T. (2025). Expert retrospective on a decade of the Paris Agreement. *Nature climate change*, 15, 1136-1140. doi:10.1038/s41558-025-02477-w

Armeni, C., & Lee, M. (2025). Participation and Protest Across Civic Space: An Environmental Law Story. *Transnational law & contemporary problems*, 14(3), 582-605. doi:https://doi.org/10.1017/S2047102525100095

Dobruszkes, F., Grandjean, M., & Nihoul, A. (2025). Richting openbaar vervoer voor iedereen in Brussel: inclusieve ontwerpscenario's getest. *Brussels Studies*, 206. doi:10.4000/14phl

Dobruszkes, F., Grandjean, M., & Nihoul, A. (2025). Towards public transport for all in Brussels: Testing inclusive design-based scenarios. *Brussels Studies*, 206. doi:10.4000/14phj

Jung, J., Duprey, N., Foreman, A., D'Olivo, J. P., Pellio, C., Ryu, Y., Murphy, E. L., Romshoo, B., Kersting, D., Cardoso, G. O., Wald, T., Fripiat, F., Jimenez, C., Gischler, E., Montagna, P., Alonso-Hernández, C., Gomez-Batista, M., Treinen-Crespo, C., Carriquiry, J., Ong, M. R., Goodkin, N., Guppy, R., Aardema, H., Slagter, H., Heins, L., de Angelis, I. H., Bieler, A. L., Yehudai, M., Noël, T. P., James, K., Scholz, D., Hu, C., Barnes, B. B., Pozzer, A., Pöhlker, C., Lelieveld, J., Pöschl, U., Vonhof, H., Haug, G. H., Schiebel, R., Sigman, D. M., & Martínez-García, A. (2025). Equatorial upwelling of phosphorus drives Atlantic N<sub>2</sub> fixation and Sargassum blooms. *Nature Geoscience*. doi:10.1038/s41561-025-01812-2

Maisonnier, M., Feng, M., Bastviken, D., Arndt, S., Lauerwald, R., Jabbari, A., Laruelle, G. G., MacKay, M., Tan, Z., Thiery, W., & Regnier, P. (2025). A new biogeochemical modelling framework (FLaMe-v1.0) for lake methane emissions on the regional scale: development and application to the European domain. *Earth System Dynamics*, 16(5), 1779-1808. doi:10.5194/esd-16-1779-2025

Li, Y., Coulon, V., Blasco Navarro, J., Qiao, G., Yang, Q., & Pattyn, F. (2025). Damage intensity increases ice mass loss from Thwaites Glacier, Antarctica. *The Cryosphere*, 19(10), 4373-4390. doi:10.5194/tc-19-4373-2025

Raspoet, O., & Pattyn, F. (2025). Estimates of basal and englacial thermal conditions of the Antarctic ice sheet. *Journal of Glaciology*, 71, e104. doi:10.1017/jog.2025.10087

Dobruszkes, F. (2025). Measuring the degree of aviation liberalisation: Should we trust bilateral agreements? *Journal of the Air Transport Research Society*, 5, 100083.

Cappelli, L., Wallace, P. P., Ernst, G. J., Mbede, E., Kwelwa, S., Abdallah, E., & Fontijn, K. (2025). Pre-eruptive reservoir conditions of the peralkaline Rungwe Pumice Plinian eruption (Tanzania) from haüyne-hosted melt inclusions. *Journal of Petrology*.

Diekmann, A. (2025). Les non-départs : une problématique sociale oubliée. *Revue Partances*,(8), <https://doi.org/10.3917/parta.008.0010>, 10-13.

Zeising, O., Hattermann, T., Kaleschke, L., Boebel, O., Drews, R., Ershadi, M., Fromm, T., Pattyn, F., Steinhage, D., & Eisen, O. (2025). Enhanced basal melting in winter and spring: seasonal ice-ocean interactions at the Ekstr"om Ice Shelf, East Antarctica. *The Cryosphere*, 19(8), 2837-2854. doi:10.5194/tc-19-2837-2025

Van Deursen, M., Gupta, A., Prasad, S., & Weikmans, R. (2025). Between a rock and a hard place: Unpacking India's engagement inUNFCCC transparency arrangements. *Climate Policy*. doi:10.1080/14693062.2025.2524512

Noack, L., ten Kate, I. L., Javaux, E., McMahon, S., Malaterre, C., Grenfell, J. L., Klenner, F., Lara, Y., Khawaja, N., Patty, L. H. L. C., Debaille, V., Baqué, M., Hillier, J., & Postberg, F. (2025). Why do we need (another) universal tracers portal in Astrobiology? *International journal of astrobiology*, 24, 1 9. doi:10.1017/S1473550425100086

Xiao, F., Dobruszkes, F., Mo, H., & Wang, J. (2025). Why a multi-airport system? A tale of three metropolitan areas in China. *Journal of air transport management*, 128, 102847.

Moos, S., Vichi, M., Fripiat, F., Tison, J.-L., De Wit, A., & Rampai, T. (2025). Developing digital image processing methods to quantify internal and interfacial convection in the Hele-Shaw cell, with applications to the laboratory ice-ocean boundary layer. *Journal of Glaciology*, 71, e86. doi:10.1017/jog.2025.10066

Ma, M., Zhang, H., Lauerwald, R., Ciais, P., & Regnier, P. (2025). Estimating lateral nitrogen transfers over the last century through the global river network using a land surface model. *Earth System Dynamics*, 16(3), 841-867. doi:10.5194/esd-16-841-2025

Yates, A. P., Caudron, C., Mordret, A., Lesage, P., Cannata, A., Cannavo', F., Lecocq, T. T., Pinel, V., & Zaccarelli, L. (2025). Precursory velocity changes prior to the 2019 paroxysms at Stromboli volcano, Italy, from coda wave interferometry. *Volcanica*, 8(1), 203-223.

Wald, T., Fripiat, F., Foreman, A., Ryu, Y., Marconi, D., Tanhua, T., Sisma#Ventura, G., Sigman, D. M., Haug, G. H., & Martínez-García, A. (2025). Origins of the Nitrate 15 N Depletion in the Mediterranean Sea. *Global biogeochemical cycles*, 39(6). doi:10.1029/2023GB008035

Casier, C., Vandenbroucke, A., Decroly, J.-M., Marissal, P., & Vandenbroeck, M. (2025). Accessibilité des milieux d'accueil de la petite enfance en Région de Bruxelles-Capitale. *Brussels Studies*.

Legrain, E., Tollenaar, V., Goderis, S., Ardoin, L., Blard, P.-H., Claeys, P., Cordero, R., Debaille, V., Fripiat, F., Huybrechts, P., Imae, N., Izeboud, M., Pattyn, F., Pourkhorsandi, H., Seguinot, J., Shirai, N., Vancappellen, M., Van Ginneken, M., Wauthy, S., Yamaguchi, A., Yesiltas, M., & Zekollari, H. (2025). Absence of Elevation#Dependent Warming in

Antarctica Inferred From Blue Ice Paleoclimate Records. *Geophysical research letters*, 52(9). doi:10.1029/2024GL113165

Gupta, A., van Asselt, H., Van Deursen, M., Agarwal, R., Biesbroek, R., Weikmans, R., Kidane, R., Jacobs, H., Prasad, S., Bergsvik, R., Broek, E., Harrould-Kolieb, E., & Park, H. (2025). Climate transparency's unmet promises: A necessary stocktaking. *PLOS climate*. doi:10.1371/journal.pclm.0000613

Roche, B. J., Caudron, C., van der Laat, L., De Moor, J., Avar, G., Pacheco, J., Bakkar Hindeleh, H., Govoorts, J., & Rodriguez, A. (2025). First hydroacoustic recording of ebullition events in an active volcanic lake – Poás, Costa Rica. *Volcanica*, 8(1), 225-239. doi:10.30909/vol/bzas2042

NICOLA, L., FRØYSTAD, R., JUAREZ-MARTINEZ, A., MENTHON, M., MORAES LUZARDI, A. C., TURNER, K. A., Wilson, S. F., KARLSSON, N. B., VAN DEN AKKER, T., AMBELORUN, A., ANDERNACH, M., BENTLEY, M. J., BIANCHI, G., BIRD, L., CARTER, C., CASTILLO-LLARENA, A., COFFEY, N., DAWSON, E., DE RODA HUSMAN, S., EISEN, O., Gregov, T., HEWITT, I. J., HOFSTEENGE, M., JAIN, L., JAMES, M., JESSE, F., LAURITZEN, M., LU, G., MÜHL, M., PATTERSON, V., Pattyn, F., REIJMER, C., RAHLVES, C., RICHTER, N., RIECKH, T., SCHALAMON, F., SCHÖLL, S., SHUKLA, S., VERRO, K., Winkelmann, R., Wirths, C., & KEISLING, B. (2025). Where do we want the glaciological community to be in 2073? Equality, Diversity, and Inclusion challenges and visions from the 2023 Karthaus Summer School. *Journal of Glaciology*, 1-34. doi:10.1017/jog.2025.18

Dalman, L., Meiners, K. M., Thomas, D. N., Deman, F., Bestley, S., Moreau, S., Arrigo, K. R., Campbell, K., Corkill, M., Cozzi, S., Delille, B., Fransson, A., Fraser, A. D., Henley, S. F., Janssens, J., Lannuzel, D., Munro, D. D., Nomura, D., Norman, L., Papadimitriou, S., Schallenberg, C., Tison, J.-L., Vancoppenolle, M., Van der Merwe, P., & Fripiat, F. (2025). Observation#Based Estimate of Net Community Production in Antarctic Sea Ice. *Geophysical research letters*, 52(7). doi:10.1029/2024GL113717

Pritchard, H. D., Fretwell, P. T., Fremand, A. C., Bodart, J. A., Kirkham, J., Aitken, A., Bamber, J. L., Bell, R., Bianchi, C., Bingham, R. G., Blankenship, D., Casassa, G., Christianson, K., Conway, H., Corr, H. F. J., Cui, X., Damaske, D., Damm, V., Dorschel, B., Drews, R., Eagles, G., Eisen, O., Eisermann, H., Ferraccioli, F., Field, E., Forsberg, R., Franke, S., Goel, V., Gogineni, S. P., Greenbaum, J. S., Hills, B., Hindmarsh, R. C. A., Hoffman, A. O., Holschuh, N., Holt, J. W., Humbert, A., Jacobel, R. W., Jansen, D., Jenkins, A., Jokat, W., Jong, L., Jordan, T. A., King, E. C., Kohler, J., Krabill, W., Maton, J., Gillespie, M. K., Langley, K., Lee, J., Leitchenkov, G., Leuschen, C., Luyendyk, B., MacGregor, J. A., MacKie, E., Moholdt, G., Matsuoka, K., Morlighem, M., Mouginot, J., Nitsche, F. O., Nost, O. A., Paden, J., Pattyn, F., Popov, S., Rignot, E., Rippin, D. M., Rivera, A., Roberts, J. L., Ross, N., Ruppel, A., Schroeder, D. M., Siegert, M. J., Smith, A. M., Steinhage, D., Studinger, M., Sun, B., Tabacco, I., Tinto, K. J., Urbini, S., Vaughan, D. G., Wilson, D. S., Young, D. D., & Zirizzotti, A. (2025). Bedmap3 updated ice bed, surface and thickness gridded datasets for Antarctica. *Scientific data*, 12(1). doi:10.1038/s41597-025-04672-y

Rantala, M., Israde-Alcántara, I., Safaierad, R., Tylmann, W., Lepoint, G., Francus, P., Smol, J., Meyer-Jacob, C., Grooms, C., Mattielli, N., Metcalfe, S., Etma#ski, P., & Fagel, N. (2025). Anthropogenic increase in organic carbon production and burial in two

tropical Mexican crater lakes. *Science of the total environment*, 971, 179041. doi:10.1016/j.scitotenv.2025.179041

Dobruszkes, F., Grandjean, M., & Nihoul, A. (2025). Public transport for all (continued)? Journeys within Brussels for disabled people. *Brussels Studies*, 200. doi:10.4000/13bqw

Moyano, A., & Dobruszkes, F. (2025). Privatising profits and socialising losses: The effects of liberalisation on the incumbent high-speed rail operator in Spain. *Research in Transportation Business and Management*, 60, 101317. doi:10.1016/j.rtbm.2025.101317

Dobruszkes, F. (2025). Is air/high-speed rail integration the panacea to curb the impact of aviation on climate change? The case of Frankfurt Airport. *European journal of transport and infrastructure research*, 25(1), 160-177. doi:10.59490/ejtir.2025.25.1.7477

Xiao, F., Dobruszkes, F., Mo, H., & Wang, J. (2025). Revisiting competition and complementarity in multiple airport systems: An analysis of air routes and flights. *Transport policy*, 166, 50-64. doi:10.1016/j.tranpol.2025.02.024

Soubestre, J., Caudron, C., Melnik, O., Lecocq, T., Jaupart, C., Shapiro, N. N., Journeau, C., Çubuk-Sabuncu, Y., & Jónsdóttir, K. (2025). Dynamics of the 2021 Fagradalsfjall Eruption (Iceland) Revealed by Volcanic Tremor Patterns. *Journal of Geophysical Research B: Solid Earth*, 130(2), e2024JB029380. doi:10.1029/2024JB029380

Debret, B., Sossi, P., Malaspina, N., Gautier, A., Mattielli, N., O'Neill, H. S. H., Villalobos-Orchard, J., & Moynier, F. (2025). Carbonate metasomatism at mantle wedge conditions, evidence from trace element and stable isotope (Fe, Zn) signatures of orogenic peridotites. *Chemical geology*, 680, 122649.

Wallace, P. A., Otieno, V., Godec, P., Njoroge, R., Tubula, M., Cappelli, L., Kamau, P., Nomade, S., Mariita, N., & Fontijn, K. (2025). Temporal and spatial evolution of explosive silicic peralkaline eruptions at the Olkaria Volcanic Complex and Longonot volcano in the Southern Kenya Rift. *Journal of volcanology and geothermal research*, 460, 108275. doi:10.1016/j.jvolgeores.2025.108275

Hoppstock-Mattson, B. B., Weis, D., MATON, J., Hublet, G., & Mattielli, N. (2025). Local honey reflects environmental changes in metal concentrations and lead isotope ratios during COVID-19 restrictions in Brussels, Belgium, and Vancouver, Canada. *Science of the total environment*, 959, <https://doi.org/10.1016/j.scitotenv.2024.178077>, 178077.

Rodler-Rørbo, A., Baragona, A. A., Verbeemen, E. E., Sørensen, L. V., Çakmakolu, B., Helvaci, C., Bolea-Fernandez, E., Rua-Ibarz, A., Vanhaecke, F., Becker, H., Artioli, G., Zabрана, L., Debaille, V., Mattielli, N., Goderis, S., & Claeys, P. (2025). Cinnabar for Roman Ephesus: Material quality, processing and provenance. *Journal of archaeological science*, 173, 106122, 1-16. doi:10.1016/j.jas.2024.106122

Sengeløv, A., Capuzzo, G., Dalle, S., James, H. H., Sabaux, C., Stamatakis, E., Hlad, M., Gerritzen, C., Legrand, E., Veselka, B., de Mulder, G., Annaert, R., Boudin, M., Salesse, K., Warmenbol, E., Mattielli, N., Snoeck, C., & Vercauteren, M. (2025). From plants to patterns: Constructing a comprehensive online strontium isoscape for Belgium

(IsoBel) using high density grid mapping. *Geoderma*, 453, 117123. doi:10.1016/j.geoderma.2024.117123

Laruelle, G. G., Rosentreter, J. A., & Regnier, P. (2025). Extrapolation-Based Regionalized Re-evaluation of the Global Estuarine Surface Area. *Estuaries and Coasts*. doi:10.1007/s12237-024-01463-3

Placitu, S., van de Velde, S. S., Hylén, A., Hall, P. P., Robertson, E. E., Eriksson, M., Leermakers, M., Mehta, N., & Bonneville, S. (2025). Limited Organic Carbon Burial by the Rusty Carbon Sink in Swedish Fjord Sediments. *Journal of Geophysical Research. Biogeosciences*, 129(11), e2024JG008277. doi:10.1029/2024JG008277

Yates, A., Caudron, C., Mordret, A., Lesage, P., Cannata, A., Cannavo, F., Lecocq, T., Pinel, V., & Zaccarelli, L. (2025). Precursory velocity changes prior to the 2019 paroxysms at Stromboli volcano, Italy, from coda wave interferometry. *Volcanica*, 8(1), 203-223. doi:10.30909/vol/cyrk413

Suau-Sanchez, P., Dobruszkes, F., & Mattioli, G. (2025). Does cutting airport slots reduce climate impact? The case of Amsterdam airport. *Transportation research. Part D, Transport and environment*, 143, 104744. doi:10.1016/j.trd.2025.104744

Dobruszkes, F., Grandjean, M., & Nihoul, A. (2025). Des transports publics pour tous (suite) ? Les trajets dans Bruxelles pour les personnes en situation de handicap. *Brussels Studies*, 200. doi:10.4000/13bqx

Dobruszkes, F., Grandjean, M., & Nihoul, A. (2025). Openbaar vervoer voor iedereen (vervolg)? Verplaatsingen binnen Brussel voor mensen met een handicap. *Brussels Studies*, 200. doi:10.4000/13bqy

Dzi#cielski, M., Dobruszkes, F., Nikitas, A., & Radzimski, A. (2025). Assessing the impacts of free-floating shared micromobility services on docked bike-sharing: Insights from the case studies of Pozna# and Brussels. *Journal of transport geography*, 128, 104306. doi:10.1016/j.jtrangeo.2025.104306

Dobruszkes, F., Grandjean, M., & Nihoul, A. (2025). Vers des transports publics pour tous à Bruxelles : une évaluation de scénarios de design inclusif. *Brussels Studies*, 206. doi:10.4000/14phk

Cloquet, I., Van De Leemput, C., Hellemans, C., Flandrin, P., Patris, O., & Toumia, R. (2025). Anticiper les effets de la digitalisation sur l'emploi dans le secteur du tourisme dans les Région de Bruxelles-Capitale. Anticipating how digitalisation will affect tourism employment in the Brussels-Capital Region. *Brussels Studies.*, 8059.

## 2024

Vandenhole, K., BLOCK, T., & Bauler, T. (2024). The cultural politics of eco-shaming. *Sustainability: Science, Practice, & Policy*, 21(1), 2440951. doi:10.1080/15487733.2024.2440951

- Kazmierczak, E., Gregov, T., Coulon, V., & Pattyn, F. (2024). A fast and simplified subglacial hydrological model for the Antarctic Ice Sheet and outlet glaciers. *The Cryosphere*, 18(12), 5887-5911. doi:10.5194/tc-18-5887-2024
- Coulon, V., De Rydt, J., Gregov, T., Qin, Q., & Pattyn, F. (2024). Future Freshwater Fluxes From the Antarctic Ice Sheet. *Geophysical research letters*, 51(23). doi:10.1029/2024GL111250
- Zorzano, M. P., Martínez, G., Polkko, J., Tamppari, L. L., Newman, C., Savijärvi, H., Goreva, Y., Viúdez-Moreiras, D., Bertrand, T., Smith, M., Hausrath, E. E., Siljeström, S., Benison, K., Bosak, T., Czaja, A. A., Debaille, V., Herd, C., Mayhew, L., Sephton, M. M., Shuster, D., Simon, J. J., Weiss, B. P., Randazzo, N., Mandon, L., Brown, A., Hecht, M. M., & Martínez-Frías, J. (2024). Present-day thermal and water activity environment of the Mars Sample Return collection. *Scientific reports*, 14(1), 7175. doi:10.1038/s41598-024-57458-4
- Caudron, C., Miao, Y., Spica, Z., Wollin, C., Haberland, C., Jousset, P., Yates, A., Vandemeulebrouck, J., Schmidt, B., Krawczyk, C., & Dahm, T. (2024). Monitoring underwater volcano degassing using fiber-optic sensing. *Scientific reports*, 14(1), 7191. doi:10.1038/s41598-024-53444-y
- Yates, A., Caudron, C., Mordret, A., Lesage, P., Pinel, V., Lecocq, T., Miller, C., Lamb, O. D., & Fournier, N. (2024). Seasonal Snow Cycles and Their Possible Influence on Seismic Velocity Changes and Eruptive Activity at Ruapehu Volcano, New Zealand. *Journal of Geophysical Research B: Solid Earth*, 129(12), e2024JB029568. doi:10.1029/2024JB029568
- Tadesse, A., Fontijn, K., Wallace, P. A., Gurioli, L. P., Laha, P., Terryn, H., & Ayalew, D. (2024). Eruption style and dynamics of the ~ 87 ka Baricha peralkaline rhyolite eruption in Ethiopia. *Bulletin of volcanology*, 86(12). doi:10.1007/s00445-024-01787-9
- Bergsvik, R., Gupta, A., Weikmans, R., & Möller, I. (2024). Is transparency furthering clarity in multilateral climate governance? The case of climate finance. *International environmental agreement: politics, law and economics*. doi:10.1007/s10784-024-09652-y
- Capuzzo, G., Stamatakis, E., De Lotto, M. A. B., Pettarin, S., Claeys, P., Mattielli, N., Tasca, G., & Snoeck, C. (2024). A multi-proxy approach to reconstruct chronology, human mobility, and funerary practices at the Late Bronze-Early Iron Age urnfield of San Valentino (San Vito al Tagliamento, Italy). *PloS one*, 19(11), e0309649. doi:10.1371/journal.pone.0309649
- Petit, J., Mattielli, N., De Jong, J., Bouhoule, E., Debouge, W., Maggi, P., Hublet, G., Fagel, N., Pirard, C., Charlier, C., & Suzanne, R. (2024). High precision blood lead radiogenic isotope signatures in a community exposed to Pb contaminated soils and implications for the current Pb exposure of the European population. *Science of the total environment*, 950, 174763. doi:10.1016/j.scitotenv.2024.174763
- Robic, J., Debaille, V., Villacorte, E., Hublet, G., Maximo, R., Syahbana, D. K., Suparjan, Caudron, C., Bornas, M. A., Solidum, R. R., & Bernard, A. (2024). Understanding zinc

isotopic signatures in volcanic lakes. *Geochimica et cosmochimica acta*, 384, 178-193. doi:10.1016/j.gca.2024.08.004

Fouché, J., Hirst, C., Bonneville, S., Opfergelt, S., Haghypour, N., Eglinton, T. I., Vonk, J., & Bröder, L. (2024). Rainfall Impacts Dissolved Organic Matter and Cation Export From Permafrost Catchments and a Glacial River During Late Summer in Northeast Greenland. *Permafrost and periglacial processes*, 36(1), 3-21. doi:10.1002/ppp.2250

Dénos, C., Vandevijvere, S., Boone, L., Cooreman-Algoed, M., De Bauw, M., Achten, W., & Dewulf, J. (2024). Contribution of ultra-processed food and animal-plant protein intake ratio to the environmental impact of Belgian diets. *Sustainable production and consumption*, 51, 584-598. doi:10.1016/j.spc.2024.10.008

Muller, S., Fripiat, F., Jaccard, S. L., Ponsoni, L., Hölemann, J., Martínez-García, A., & Delille, B. (2024). Nitrous oxide dynamics in the Kara Sea, Arctic Ocean. *Frontiers in marine science*, 11. doi:10.3389/fmars.2024.1497360

Li, Y., Coulon, V., Blasco Navarro, J., Qiao, G., Yang, Q., & Pattyn, F. (2024). Damage strength increases ice mass loss from Thwaites Glacier, Antarctica. *The Cryosphere Discussions*.

Ershadi, R., Drews, R., Tison, J.-L., Martin, C., Henry, A. C. J., Oraschewski, F. M., Tsibulskaya, V., Sun, S., Wauthy, S., Koch, I., Bons, P., Eisen, O., & Pattyn, F. (2024). Investigating the dynamic history of a promontory ice rise using radar data. *Journal of Glaciology*, 1-35. doi:10.1017/jog.2024.70

van der Laat, L., Spica, Z., Caudron, C., & Girona, T. (2024). Magma fizz: Tremor during the Kilauea summit reservoir decompression. *Journal of volcanology and geothermal research*, 454, 108174. doi:10.1016/j.jvolgeores.2024.108174

Steinke, B., Jolly, A. A., Girona, T., Caudron, C., Bramwell, L., Cronin, S., Illsley-Kemp, F., & Hughes, E. E. (2024). Dynamics and Detection of Pulsed Tremor at Whakaari (White Island), Aotearoa New Zealand. *Geophysical research letters*, 51(20), e2024GL110447. doi:10.1029/2024GL110447

Dobruszkes, F., Mattioli, G., & Gozzoli, E. (2024). The elephant in the room: Long-haul air services and climate change. *Journal of transport geography*, 121, 104022. doi:10.1016/j.jtrangeo.2024.104022

Dobruszkes, F., Grandjean, M., Nihoul, A., & Descamps, J. (2024). Des transports publics pour tous ? Une évaluation des arrêts de la STIB à Bruxelles. *Brussels studies*, 193. doi:10.4000/11v4g

Dobruszkes, F., Grandjean, M., Nihoul, A., & Descamps, J. (2024). Openbaar vervoer voor iedereen? Beoordeling van de MIVB-haltes van de MIVB in Brussel. *Brussels studies*, 193. doi:10.4000/11v4h

Klose, A. K., Coulon, V., Pattyn, F., & Winkelmann, R. (2024). The long-term sea-level commitment from Antarctica. *The Cryosphere*. doi:10.5194/tc-18-4463-2024

Getaw, A., Ayalew, D., Fontijn, K., & Mengistie, T. (2024). Petrogenesis and geochemical evolution of Chole basalts, Southeastern Ethiopian Plateau. *International journal of earth sciences*. doi:10.1007/s00531-024-02463-1

Seroussi, H., Pelle, T., Lipscomb, W. H., Abe-Ouchi, A., Albrecht, T., Alvarez#Solas, J., Asay#Davis, X., Barre, J., Berends, C. J., Bernales, J., Blasco Navarro, J., Caillet, J., Chandler, D., Coulon, V., Cullather, R., Dumas, C., Galton#Fenzi, B. K., Garbe, J., Gillet#Chaufet, F., Gladstone, R. R., Goelzer, H., Golledge, N., Greve, R., Gudmundsson, G. H., Han, H. K., Hillebrand, T., Hoffman, M. J., Huybrechts, P., Jourdain, N. C., Klose, A. K., Langebroek, P., Leguy, G. R., Lowry, D. P., Mathiot, P., Montoya, M., Morlighem, M., Nowicki, S., Pattyn, F., Payne, A. J., Quiquet, A., Reese, R., Robinson, A., Saraste, L., Simon, E. G., Sun, S., Twarog, J., Trusel, L. D., Urruty, B., Van Breedam, J., van de Wal, R. S. W., Wang, Y., Zhao, C., & Zwinger, T. (2024). Evolution of the Antarctic Ice Sheet Over the Next Three Centuries From an ISMIP6 Model Ensemble. *Earth's future*, 12(9). doi:10.1029/2024EF004561

Blasco Navarro, J., Tabone, I., Moreno-Parada, D., Robinson, A., Alvarez#Solas, J., Pattyn, F., & Montoya, M. (2024). Antarctic tipping points triggered by the mid-Pliocene warm climate. *Climate of the past*, 20(9), 1919-1938. doi:10.5194/cp-20-1919-2024

Dobruszkes, F., & Dzi#cielski, M. (2024). Does docked bike-sharing usage complement or overlap public transport? the case of Brussels, Belgium. *Transportation planning and technology*, 47(6), 834-851. doi:10.1080/03081060.2023.2256717

Bierman, P. R., Christ, A. J., Collins, C., Mastro, H., Souza, J., Blard, P.-H., Brachfeld, S., Courville, Z. R., Rittenour, T. M., Thomas, E. K., Tison, J.-L., & Fripiat, F. (2024). Scientific history, sampling approach, and physical characterization of the Camp Century subglacial material, a rare archive from beneath the Greenland Ice Sheet. *The Cryosphere*, 18(9), 4029-4052. doi:10.5194/tc-18-4029-2024

Bierman, P. R., Christ, A. A., Collins, C., Mastro, H. H., Souza, J., Blard, P.-H., Brachfeld, S., Courville, Z. Z., Rittenour, T. T., Thomas, E., Tison, J.-L., & Fripiat, F. (2024). Scientific history, sampling approach, and physical characterization of the Camp Century subglacial material, a rare archive from beneath the Greenland Ice Sheet. *The Cryosphere*, 18(9), 4029-4052. doi:10.5194/tc-18-4029-2024

Duchene, C., Strale, M., Willeput, M., Pudles, N., Decroly, J.-M., Hellemans, C., Pohl, S., & Verdonck, M. (2024). La généralisation du télétravail en Région de Bruxelles-Capitale. *Brussels studies.*, 194.

IAVCEI-INVOLC International Network for Volcanology Collaboration, I., Fontijn, K., Bornas, M. A., Miller, V., Palma, J. L., & Cárdenas, C. I. R. (2024). Towards inclusive collaboration in volcanology: guidelines for best#engagement protocols in international collaboration. *Bulletin of volcanology*, 86, 78, 7.

Colby, D., Pyle, D. M., Fontijn, K., Mather, T. A., Nomade, S., Melaku, A. A., Mengesha, M. A., & Yirgu, G. (2024). Magma storage conditions beneath a peralkaline caldera in the Main Ethiopian Rift. *Journal of volcanology and geothermal research*, 455, 108165. doi:10.1016/j.jvolgeores.2024.108165

Sabaux, C., Snoeck, C., Capuzzo, G., Veselka, B., Dalle, S., Warmenbol, E., Stamatakis, E., Hlad, M., Sengeløv, A., Debaille, V., Boudin, M., Salesse, K., Annaert, R., Vercauteren,

M., & de Mulder, G. (2024). Novel multidisciplinary approach detects multiple individuals within the same Late Bronze-Early Iron Age cremation graves. *Radiocarbon*, 66(4), 761-773. doi:10.1017/RDC.2024.82

Auderset, A., Fripiat, F., Creel, R., Oesch, L., Studer, A. S., Repschläger, J., Hathorne, E., Vonhof, H., Schiebel, R., Gordon, L., Lawrence, K., Ren, H. A., Haug, G. H., Sigman, D. M., & Martínez-García, A. (2024). Sea Level Modulation of Atlantic Nitrogen Fixation Over Glacial Cycles. *Paleoceanography and Paleoclimatology*, 39(8). doi:10.1029/2024PA004878

Savaresi, A., Setzer, J., Bookman, S., Bouwer, K., Chan, T., Keuschnigg, I., Armeni, C., Harrington, A., Heri, C., Higham, I., Hilson, C., Luporini, R., Macchi, C., Nordlander, L., Obani, P., Peterson, L., Schapper, A., Ghaleigh, N. S., Tigre, M. A., & Wewerinke-Singh, M. (2024). Conceptualizing just transition litigation. *Nature Sustainability*. doi:10.1038/s41893-024-01439-y

Van Hamme, G. (2024). La géographie des élections en Algérie, de 2007 à 2017. *L'Annee du Maghreb*.

Dobruszkes, F., Grandjean, M., Nihoul, A., & Descamps, J. (2024). Public transport for all? Assessing the STIB-MIVB stops in Brussels. *Brussels Studies*, 193. doi:10.4000/11v4f

Kelly, A., Rodemann, T., Meiners, K. M., Auman, H. H., Moreau, S., Fripiat, F., Dellile, B., & Lannuzel, D. (2024). Microplastics in Southern Ocean sea ice: a pan-Antarctic perspective. *Water Emerging Contaminants and Nanoplastics*, 3(4), 26. doi:10.20517/wecn.2024.66

Van Ginneken, M., Wozniakiewicz, P., Brownlee, D. D., Debaille, V., Della Corte, V., Delauche, L., Duprat, J., Engrand, C., Folco, L., Fries, M., Gattacceca, J., Genge, M. M., Goderis, S., Gounelle, M., Harvey, R. R., Jonker, G., Krämer Ruggiu, L., Larsen, J. H. J., Lever, J. J., Noguchi, T., Peterson, S., Rochette, P., Rojas, J., Rotundi, A., Rudraswami, N., Suttle, M. M., Taylor, S. H., Van Maldeghem, F., & Zolensky, M. (2024). Micrometeorite collections: a review and their current status. *Philosophical transactions - Royal Society. Mathematical, Physical and engineering sciences*, 382(2273), 20230195. doi:10.1098/rsta.2023.0195

Dobruszkes, F., & Moyano, A. (2024). The longer the better? Revisiting high-speed rail coverage worldwide. *Transportation planning and technology*, 47(4), 471-488. doi:10.1080/03081060.2024.2306357

Uri, I., Robinson, S.-A., Roberts, T., Ciplet, D., Weikmans, R., & Khan, M. (2024). Equity and Justice in Loss and Damage Finance: A Narrative Review of Catalysts and Obstacles. *Current climate change reports*. doi:10.1007/s40641-024-00196-6

Tollenaar, V., Zekollari, H., Kittel, C., Farinotti, D., Lhermitte, S., Debaille, V., Goderis, S., Claeys, P., Joy, K. H., & Pattyn, F. (2024). Antarctic meteorites threatened by climate warming. *Nature climate change*, 14(4), 340-343. doi:10.1038/s41558-024-01954-y

Çubuk-Sabuncu, Y., Jónsdóttir, K., Árnadóttir, T., Mordret, A., Caudron, C., Lecocq, T., & De Plaen, R. (2024). Temporal Seismic Velocity Changes Associated With the Mw 6.1, May 2008 Ölfus Doublet, South Iceland: A Joint Interpretation From dv/v

and GPS. *Journal of Geophysical Research B: Solid Earth*, 129(4), e2023JB027064. doi:10.1029/2023JB027064

Poppe, S., Wauthier, C., & Fontijn, K. (2024). Inversions of Surface Displacements in Scaled Experiments of Analog Magma Intrusion. *Geophysical research letters*, 51(8). doi:10.1029/2023GL106805

Zadsaleh, M., Fontijn, K., Pourkhorsandi, H., & Masoudi, F. (2024). A history of explosive eruptions at Young Damavand volcano, Iran. *Journal of volcanology and geothermal research*, 449, 108062. doi:10.1016/j.jvolgeores.2024.108062

Marschalek, J. W., Blard, P.-H., Sarigulyan, E., Ehrmann, W., Hemming, S. R., Thomson, S. N., Hillenbrand, C. D., Licht, K., Tison, J.-L., Ardoin, L., Fripiat, F., Allen, C. C., Marrocchi, Y., Siegert, M. J., & van de Flierdt, T. (2024). Byrd Ice Core Debris Constrains the Sediment Provenance Signature of Central West Antarctica. *Geophysical research letters*, 51(5). doi:10.1029/2023GL106958

Roobaert, A., Resplandy, L. L., Laruelle, G. G., Liao, E. E., & Regnier, P. (2024). Unraveling the Physical and Biological Controls of the Global Coastal CO<sub>2</sub> Sink. *Global biogeochemical cycles*, 38(3), e2023GB007799. doi:10.1029/2023GB007799

Abascal, A., Vanhuysse, S., Grippa, T., Rodriguez-Carreño, I., Georganos, S., Wang, J., Kuffer, M. M., Martinez-Diez, P., Santamaria-Varas, M., & Wolff, E. (2024). AI perceives like a local: predicting citizen deprivation perception using satellite imagery. *npj urban sustainability*, 4(1). doi:10.1038/s42949-024-00156-x

Coulon, V., Ann Kristin, K., Kittel, C., Edwards, T. L., Turner, F., Winkelmann, R., & Pattyn, F. (2024). Disentangling the drivers of future Antarctic ice loss with a historically calibrated ice-sheet model. *The Cryosphere*.

Tollenaar, V., Zekollari, H., Pattyn, F., Rußwurm, M., Kellenberger, B., Lhermitte, S., Izeboud, M., & Tuia, D. (2024). Where the White Continent Is Blue: Deep Learning Locates Bare Ice in Antarctica. *Geophysical research letters*, 51(3). doi:10.1029/2023GL106285

Hanna, E., Topál, D., Box, J. J., Buzzard, S., Christie, F., Hvidberg, C., Morlighem, M., De Santis, L., Silvano, A., Colleoni, F., Sasgen, I., Banwell, A. F., van den Broeke, M. R., DeConto, R., De Rydt, J., Goelzer, H., Gossart, A., Gudmundsson, G. H., Lindbäck, K., Miles, B. B., Mottram, R., Pattyn, F., Reese, R., Rignot, E., Srivastava, A., Sun, S., Toller, J., Tuckett, P., & Ultee, L. (2024). Short- and long-term variability of the Antarctic and Greenland ice sheets. *Nature Reviews Earth & Environment*. doi:10.1038/s43017-023-00509-7

Contreras-Arratia, R., Chouet, B., Caudron, C., Nath, N., Balchan, A., Madoo, F., & Ramsingh-Reddock, H. (2024). Tracking seismicity in an underfunded institution: The case of La Soufrière St Vincent volcanic eruption 2020–2021. *Journal of volcanology and geothermal research*, 446, 107990. doi:10.1016/j.jvolgeores.2023.107990

Resplandy, L. L., Hogikyan, A., Müller, J. D., Najjar, R. R., Hermann, W. B., Bianchi, D., Weber, T., Cai, W.-J., Doney, S. C., Fennel, K., Gehlen, M., Hauck, J., Lacroix, F., Landschutzer, P., Le Quéré, C., Roobaert, A., Schwinger, J., Berthet, S., Bopp, L., Chau,

T. T. T., Dai, M., Gruber, N., Ilyina, T., Kock, A., Manizza, M., Lachkar, Z., Laruelle, G. G., Liao, E. E., Lima, I. D., Nissen, C., Rödenbeck, C., Séférian, R., Toyama, K., Tsujino, H., & Regnier, P. A. (2024). A Synthesis of Global Coastal Ocean Greenhouse Gas Fluxes. *Global biogeochemical cycles*. doi:10.1029/2023GB007803

Roobaert, A., Regnier, P. A., Landschutzer, P., & Laruelle, G. G. (2024). A novel sea surface pCO<sub>2</sub>-product for the global coastal ocean resolving trends over 1982--2020. *Earth System Science Data*, 16(1), 421-441. doi:10.5194/essd-16-421-2024

Van Overmeiren, P., Demeestere, K., De Wispelaere, P., Gili, S., Mangold, A., De Causmaecker, K., Mattielli, N., Delcloo, A., Langenhove, H. V., & Walgraeve, C. (2024). Four Years of Active Sampling and Measurement of Atmospheric Polycyclic Aromatic Hydrocarbons and Oxygenated Polycyclic Aromatic Hydrocarbons in Dronning Maud Land, East Antarctica. *Environmental science & technology*, 58(3), 1577-1588. doi:10.1021/acs.est.3c06425

Wauthy, S., Tison, J.-L., Inoue, M., El Amri, S., Sun, S., Fripiat, F., Claeys, P., & Pattyn, F. (2024). Spatial and temporal variability of environmental proxies from the top 120 m of two ice cores in Dronning Maud Land (East Antarctica). *Earth System Science Data*, 16(1), 35-58. doi:10.5194/essd-16-35-2024

Wainwright, A., Debaille, V., Hoffmann, M.-E., Viehmann, S., & Bau, M. (2024). Neoproterozoic marine chemical sediments as archives of Hadean silicate differentiation. *Geochemical Perspectives Letters*, 30, 46-50. doi:10.7185/geochemlet.2421

Diekmann, A., & Haukeland, J. V. (2024). Tourism non-participation – A persistent social welfare issue. *Annals of tourism research*, 104, 103717. doi:10.1016/j.annals.2023.103717

Clarke, B., Calder, E., Fontijn, K., Desalegn, F., Tierz, P., & Yirgu, G. (2024). Pumice cone eruptions at Aluto volcano, Ethiopia. *Volcanica*, 7(2), 785-811. doi:10.30909/vol.07.02.785811

#### Sans date

Van Hamme, G., Medina Lockhart, P., & Vandermotten, C. (s.d.). The Electoral Geography of the Left in Western Europe Since 1945: Permanencies and Changes. *Tijdschrift voor economische en sociale geografie*.

Van Hamme, G. (s.d.). « Julia Cagé, Thomas Piketty, "Une histoire du conflit politique, Elections et inégalités sociales en France, 1789-2022" ». *BELGEO*.

Van Hamme, G. (s.d.). « Julia Cagé, Thomas Piketty, "Une histoire du conflit politique, Elections et inégalités sociales en France, 1789-2022" ». *BELGEO*.