Liste de publications de DGES

Articles dans des revues avec comité de lecture

A paraître

Van Overmeiren, P., De Wispelaere, P., Demeestere, K., Gili, S., Mangold, A., De Causmaecker, K., Mattielli, N., Delcloo, A., Van Langenhove, H., & Walgraeve, C. (2024). Four years of active sampling of atmospheric polycyclic aromatic hydrocarbons (PAHs) and oxygenated PAHs in Dronning Maud Land, East Antarctica. *Environmental science and technology*.

2025

Vannitsem, S., Docquier, D., Wauthy, S., Corkill, M., & Tison, J.-L. (2025). Sources of low-frequency #18O variability in coastal ice cores from Dronning Maud Land (Antarctica). *Climate dynamics*, 63(1). doi:10.1007/s00382-024-07514-6

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

Laruelle, G. G., Rosentreter, J. A., & Regnier, P. (2024). Extrapolation-Based Regionalized Re-evaluation of the Global Estuarine Surface Area. *Estuaries and Coasts*. doi:10.1007/s12237-024-01463-3

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

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

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

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

Petit, J., Mattielli, N., De Jong, J., Bouhoulle, 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

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

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 K#lauea summit reservoir decompression. *Journal of volcanology and geothermal research*, 454, 108174. doi:10.1016/j.jvolgeores.2024.108174

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

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

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# Chaulet, 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

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

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

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

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

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

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

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. S., 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 CO2 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*.

Faisal, R. S., Kamal, I. I., Salih, N. N., & Préat, A. (2024). Optimum formulation design and properties of drilling fluids incorporated with green uncoated and polymer-coated magnetite nanoparticles. *Arabian Journal of Chemistry*, 17(2), 105492. doi:10.1016/j.arabjc.2023.105492

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

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 pCO2-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

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). Neoarchean marine chemical sediments as archives of Hadean silicate differentiation. *Geochemical Perspectives Letters*, 30, 46-50. doi:10.7185/geochemlet.2421

2023

Bedassa, G., Ayalew, D., Getaneh, W., Fontijn, K., Emishaw, L., Melaku, A. A., Tadesse, A., Demissie, Z., Swindle, A., & Chamberlain, K. J. (2023). Stratigraphy and eruptive history of Gedemsa caldera volcano, Central Main Ethiopian Rift. *Journal of volcanology and geothermal research*, 446, 107987. doi:10.1016/j.jvolgeores.2023.107987

Kolo, K., & Préat, A. (2023). In Vitro Experimental Observations on Fungal Colonization, Metalophagus Behavior, Tunneling, Bioleaching and Bioweathering of Multiple Mineral Substrates. *Minerals*, 13(12), 1540. doi:10.3390/min13121540

Koch, I., Drews, R., Franke, S., Jansen, D., Oraschewski, F. M., Muhle, L. S., Višnjevi#, V., Matsuoka, K., Pattyn, F., & Eisen, O. (2023). Radar internal reflection horizons from multisystem data reflect ice dynamic and surface accumulation history along the Princess Ragnhild Coast, Dronning Maud Land, East Antarctica. *Journal of Glaciology*, 1-19. doi:10.1017/jog.2023.93

Seroussi, H., Verjans, V., Nowicki, S., Payne, A. J., Goelzer, H., Lipscomb, W. H., Abe-Ouchi, A., Agosta, C., Albrecht, T., Asay-Davis, X., Barthel, A., Calov, R., Cullather, R., Dumas, C., Galton-Fenzi, B. K., Gladstone, R. R., Golledge, N. R., Gregory, J. M., Greve, R., Hattermann, T., Hoffman, M. J., Humbert, A., Huybrechts, P., Jourdain, N. C.,

Kleiner, T., Larour, E., Leguy, G. R., Lowry, D. P., Little, C. M., Morlighem, M., Pattyn, F., Pelle, T., Price, S. F., Quiquet, A., Reese, R., Schlegel, N.-J., Shepherd, A., Simon, E., Smith, R. R., Straneo, F., Sun, S., Trusel, L. D., Van Breedam, J., Van Katwyk, P., van de Wal, R. S. W., Winkelmann, R., Zhao, C., Zhang, T., & Zwinger, T. (2023). Insights into the vulnerability of Antarctic glaciers from the ISMIP6 ice sheet model ensemble and associated uncertainty. *The Cryosphere*, 17(12), 5197-5217. doi:10.5194/tc-17-5197-2023

Miesner, F., Overduin, P. P., Grosse, G., Strauss, J., Langer, M., Westermann, S., Schneider von Deimling, T., Brovkin, V. V., & Arndt, S. (2023). Subsea permafrost organic carbon stocks are large and of dominantly low reactivity. *Scientific reports*, 13(1), 9425. doi:10.1038/s41598-023-36471-z

Gregov, T., Pattyn, F., & Arnst, M. (2023). Grounding-line flux conditions for marine ice-sheet systems under effective-pressure-dependent and hybrid friction laws. *Journal of fluid mechanics*, 975. doi:10.1017/jfm.2023.760

Fagel, N., Israde-Alcantara, I., Safaierad, R., Rantala, M., Schmidt, S., Lepoint, G., Pellenard, P., Mattielli, N., & Metcalfe, S. (2023). Environmental significance of kaolinite variability over the last centuries in crater lake sediments from Central Mexico. *Applied clay science*, 247, 107211.

Cavitte, M. M., Goosse, H., Matsuoka, K., Wauthy, S., Goel, V., Dey, R., Pratap, B., Van Liefferinge, B., Meloth, T., & Tison, J.-L. (2023). Investigating the spatial representativeness of East Antarctic ice cores: a comparison of ice core and radar-derived surface mass balance over coastal ice rises and Dome Fuji. *The Cryosphere*, 17(11), 4779-4795. doi:10.5194/tc-17-4779-2023

Tang, W., Ward, B. B., Beman, M., Bristow, L., Clark, D., Fawcett, S. E., Frey, C., Fripiat, F., Herndl, G., Mdutyana, M., Paulot, F., Peng, X., Santoro, A. E., Shiozaki, T., Sintes, E., Stock, C., Sun, X., Wan, X. S., Xu, M. N., & Zhang, Y. (2023). Database of nitrification and nitrifiers in the global ocean. *Earth System Science Data*, 15(11), 5039-5077. doi:10.5194/essd-15-5039-2023

Henley, S. F., Cozzi, S., Fripiat, F., Lannuzel, D., Nomura, D., Thomas, D. N., Meiners, K. M., Vancoppenolle, M., Arrigo, K., Stefels, J., van Leeuwe, M., Moreau, S., Jones, E. M., Fransson, A., Chierici, M., & Delille, B. (2023). Macronutrient biogeochemistry in Antarctic land-fast sea ice: Insights from a circumpolar data compilation. *Marine chemistry*, 257, 104324. doi:10.1016/j.marchem.2023.104324

Cappelli, L., Wallace, P. A., Randazzo, A., Kamau, P., Njoroge, R., Otieno, V., Tubula, M., Mariita, N., Mangi, P., & Fontijn, K. (2023). Diffuse soil CO2 emissions at rift volcanoes: Structural controls and total budget of the Olkaria Volcanic Complex (Kenya) case study. *Journal of volcanology and geothermal research*, 443, 107929. doi:10.1016/j.jvolgeores.2023.107929

Tadesse, A., Bedassa, G., Kervyn de Meerendre, M., Muluneh, A. A., Gudbrandsson, S., Yirgu, G., Abera, D. A., & Fontijn, K. (2023). Structural controls on magma pathways in Bora-Baricha-Tullu Moye (BBTM) volcanic system, Main Ethiopian Rift. *Volcanica*, 6(2), 367-390. doi:10.30909/vol.06.02.367390

Ardid, A., Dempsey, D., Caudron, C., Cronin, S. J., Miller, C. A., Melchor, I., Syahbana, D., & Kennedy, B. (2023). Using Template Matching to Detect Hidden Fluid Release Episodes

Beneath Crater Lakes in Ruapehu, Copahue, and Kawah Ijen Volcanoes. *Journal of Geophysical Research B: Solid Earth*, 128(10). doi:10.1029/2023JB026729

Robinson, S.-A., Roberts, T., Weikmans, R., & Falzon, D. (2023). Vulnerability-based allocations in loss and damage finance. *Nature climate change*, 13, 1055-1062. doi:10.1038/s41558-023-01809-y

Dekoninck, A., Barbarand, J., Ruffet, G., Missenard, Y., Mattielli, N., Leprêtre, R., Mouttaqi, A., Verhaert, M., Saddiqi, O., & Yans, J. (2023). Intraplate orogenesis as a driver of multistage karst#hosted mineralization: the Imini manganese case (Atlas, Morocco). *Mineralium Deposita*., https://doi.org/10.1007/s00126-023-01212-9.

Harrould-Kolieb, E., Van Asselt, H., Weikmans, R., & Vihma, A. (2023). Opening the black box of transparency: An analytical framework for exploring causal pathways from reporting and review to state behavior change. *International Studies Review*, 25(4), viad038. doi:10.1093/isr/viad038

Martínez Fontaine, C., Peña-Araya, V., Marmo, C., Le Morvan, M., Delpech, G., Fontijn, K., Siani, G., & Cosyn-Wexsteen, L. (2023). BOOM! Tephrochronological dataset and exploration tool of the Southern (33–46° S) and Austral (49–55° S) volcanic zones of the Andes. *Quaternary science reviews*, 316, 108254. doi:10.1016/j.quascirev.2023.108254

Toumia, R., & Cloquet, I. (2023). Digitalisation et gestion des destinations touristiques : confrontation entre théories et réalités de terrain. *Téoros*, 42(1). doi:10.7202/1112679ar

Muzellec, T., Lesage, P., Caudron, C., & Got, J. (2023). Migration of Mechanical Perturbations Estimated by Seismic Coda Wave Interferometry During the 2018 Pre# Eruptive Period at K#lauea Volcano, Hawaii. *Journal of Geophysical Research B: Solid Earth*, 128(8). doi:10.1029/2022JB026224

Coulon, V., Ann Kristin, K., Kittel, C., Edwards, T. L., Turner, F., Winkelmann, R., & Pattyn, F. (2023). Disentangling the drivers of future Antarctic ice loss with a historically-calibrated ice-sheet model. *The Cryosphere Discussions*.

Sarbast, R., Kamal, I. I., Salih, N. N., & Préat, A. (2023). Aqueous drilling fluids systems incorporated with green nanoparticles and industrial spent caustic: Optimum rheology and filtration loss properties. *E3S Web of Conferences*, 405, 01013. doi:10.1051/e3sconf/202340501013

Frémand, A., Fretwell, P., Bodart, J. A., Pritchard, H. D., Aitken, A., Bamber, J. L., Bell, R., Bianchi, C., Bingham, R. G., Blankenship, D., Casassa, G., Catania, G., Christianson, K., Conway, H., Corr, H. F. J., Cui, X., Damaske, D., Damm, V., Drews, R., Eagles, G., Eisen, O., Eisermann, H., Ferraccioli, F., Field, E., Forsberg, R., Franke, S., Fujita, S., Gim, Y., Goel, V., Gogineni, S. P., Greenbaum, J. S., Hills, B., Hindmarsh, R. C. A., Hoffman, A. O., Holmlund, P., Holschuh, N., Holt, J. W., Horlings, A., Humbert, A., Jacobel, R., Jansen, D., Jenkins, A., Jokat, W., Jordan, T., King, E., Kohler, J., Krabill, W., Kusk Gillespie, M., Langley, K., Lee, J., Leitchenkov, G., Leuschen, C., Luyendyk, B., MacGregor, J. A., MacKie, E., Matsuoka, K., Morlighem, M., Mouginot, J., Nitsche, F., Nogi, Y., Nost, O., Paden, J., Pattyn, F., Popov, S. V., Rignot, E., Rippin, D., Medina-Rivera, A., Roberts, J., Ross, N., Ruppel, A., Schroeder, D. M., Siegert, M. J., Smith, A. M., Steinhage, D., Studinger, M., Sun, B., Tabacco, I., Tinto, K., Urbini, S., Vaughan, D., Welch, B., Wilson, D. S., Young, D. A., & Zirizzotti, A. (2023). Antarctic Bedmap data: Findable, Accessible,

Interoperable, and Reusable (FAIR) sharing of 60 years of ice bed, surface, and thickness data. *Earth System Science Data*, 15(7), 2695-2710. doi:10.5194/essd-15-2695-2023

Faisal, R. S., Salih, N. N., Kamal, I. I., & Préat, A. (2023). X-ray Computed Tomography (CT) to Scan the Structure and Characterize the Mud Cake Incorporated with Various Magnetic NPs Concentration: An Application to Evaluate the Wellbore Stability and Formation Damage. *Nanomaterials*, 13(12), 1843. doi:10.3390/nano13121843

Rosentreter, J. A., Laruelle, G. G., Hermann, W. B., Bianchi, T. S., Busecke, J. J. M., Cai, W.-J., Eyre, B., Forbrich, I., Kwon, E. Y., Maavara, T., Moosdorf, N., Najjar, R. R., Sarma, V. V. S. S., Dam, B., & Regnier, P. (2023). Coastal vegetation and estuaries are collectively a greenhouse gas sink. *Nature climate change*, 13(6), 579-587. doi:10.1038/s41558-023-01682-9

Ding, T., & Achten, W. (2023). Coupling agent-based modeling with territorial LCA to support agricultural land-use planning. *Journal of cleaner production*, 380, 134914.

Xu, S., Liu, B., Arndt, S., Kasten, S., & Wu, Z. (2023). Assessing global-scale organic matter reactivity patterns in marine sediments using a lognormal reactive continuum model. *Biogeosciences*, 20(12), 2251-2263. doi:10.5194/bg-20-2251-2023

Pel, B., Wittmayer, J. M., Avelino, F., & Bauler, T. (2023). Paradoxes of Transformative Social Innovation: From Critical Awareness towards Strategies of Inquiry. *Novation*, 4, 35-62.

Blard, P.-H., Protin, M., Tison, J.-L., Fripiat, F., Dahl-Jensen, D., Steffensen, J. P., Mahaney, W., Bierman, P. R., Christ, A. J., Corbett, L. B., Debaille, V., Rigaudier, T., & Claeys, P. (2023). Basal debris of the NEEM ice core, Greenland: a window into sub-ice-sheet geology, basal ice processes and ice-sheet oscillations. *Journal of Glaciology*, 1-19. doi:10.1017/jog.2022.122

Subirats, J., Barrière, J., Caudron, C., Hubert-Ferrari, A., Oth, A., Smets, B., d'Oreye, N., & Kervyn, F. (2023). Detecting sources of shallow tremor at neighboring volcanoes in the Virunga Volcanic Province using seismic amplitude ratio analysis (SARA). *Bulletin of volcanology*, 85(5). doi:10.1007/s00445-023-01640-5

Demissie, B., Vanhuysse, S., Grippa, T., Flasse, C., & Wolff, E. (2023). Using Sentinel-1 and Google Earth Engine cloud computing for detecting historical flood hazards in tropical urban regions: a case of Dar es Salaam. *Geomatics, Natural Hazards and Risk*, 14(1). doi:10.1080/19475705.2023.2202296

Vanderstraeten, A., Mattielli, N., Laruelle, G. G., Gili, S., Bory, A., Gabrielli, P., Boxho, S., Tison, J.-L., & Bonneville, S. (2023). Identifying the provenance and quantifying the contribution of dust sources in EPICA Dronning Maud Land ice core (Antarctica) over the last deglaciation (7–27 kyr BP): A high-resolution, quantitative record from a new Rare Earth Element mixing model. *Science of the total environment*, 881, 163450. doi:10.1016/j.scitotenv.2023.163450

Vanhuysse, S., Diédhiou, S. M., Grippa, T., Georganos, S., Konaté, L., Niang, E. H. A., & Wolff, E. (2023). Fine-scale mapping of urban malaria exposure under data

scarcity: an approach centred on vector ecology. *Malaria journal*, 22(1). doi:10.1186/s12936-023-04527-0

Vandenhole, K., Bauler, T., & BLOCK, T. (2023). 'How dare you!': a conceptualization of the eco-shaming discourse in Belgium. *Critical policy studies.*, 1-20. doi:10.1080/19460171.2023.2200016

Van Achter, G., Fichefet, T., Goosse, H., Pelletier, C., Haubner, K., & Pattyn, F. (2023). Ocean–Ice Sheet Coupling in the Totten Glacier Area, East Antarctica: Analysis of the Feedbacks and Their Response to a Sudden Ocean Warming. *Geosciences (Switzerland)*, 13(4), 106. doi:10.3390/geosciences13040106

Geilfus, N. X., Delille, B., Tison, J.-L., Lemes, M., & Rysgaard, S. (2023). Gas dynamics within landfast sea ice of an Arctic fjord (NE Greenland) during the spring- summer transition. *Elementa (Washington, D.C.)*, 11(1), 00056. doi:10.1525/elementa.2022.00056

Lannuzel, D., Fourquez, M., De Jong, J., Tison, J.-L., Delille, B., & Schoemann, V. (2023). First report on biological iron uptake in the Antarctic sea-ice environment. *Polar biology*, 46(4), 339-355. doi:10.1007/s00300-023-03127-7

Mutonkole Senga, P., Talbot, J., & Bonneville, S. (2023). Tropical peat deposits undergoing land-use change: the case of Buhandanda and Lushala peatlands (Democratic Republic of Congo). *Mires and Peat*, 29, 9. doi:http://dx.doi.org/10.19189/MaP.2022.OMB.StA.2415

Yates, A., Caudron, C., Lesage, P., Mordret, A., Lecocq, T., & Soubestre, J. (2023). Assessing similarity in continuous seismic cross-correlation functions using hierarchical clustering: application to Ruapehu and Piton de la Fournaise volcanoes. *Geophysical journal international*, 233(1), 472-489. doi:10.1093/gji/ggac469

Perttu, A., Assink, J., Van Eaton, A. R., Caudron, C., Vagasky, C., Krippner, J., McKee, K., De Angelis, S., Perttu, B., Taisne, B., & Lube, G. (2023). Remote Characterization of the 12 January 2020 Eruption of Taal Volcano, Philippines, Using Seismo-Acoustic, Volcanic Lightning, and Satellite Observations. *Bulletin of the Seismological Society of America*, 113(4), 1471-1492. doi:10.1785/0120220223

Ebinger, C. J., van Wijk, J., Olaka, L., Mériaux, C., & Fontijn, K. (2023). All scales must be considered to understand rifts. *Nature Reviews Earth & Environment*, 4(4), 209-210. doi:10.1038/s43017-023-00408-x

Machacca, R., Lesage, P., Tavera, H., Pesicek, J., Caudron, C., Torres, J. L., Puma, N., Vargas, K., Lazarte, I., Rivera, M., & Burgisser, A. (2023). The 2013–2020 seismic activity at Sabancaya Volcano (Peru): Long lasting unrest and eruption. *Journal of volcanology and geothermal research*, 435, 107767. doi:10.1016/j.jvolgeores.2023.107767

Marshall, T., Sigman, D. M., Beal, L., Foreman, A., Martínez-García, A., Blain, S., Campbell, E., Fripiat, F., Granger, R., Harris, E., Haug, G. H., Marconi, D., Oleynik, S., Rafter, P. A., Roman, R., Sinyanya, K., Smart, S., & Fawcett, S. E. (2023). The Agulhas Current Transports Signals of Local and Remote Indian Ocean Nitrogen Cycling. *Journal of geophysical research. Oceans*, 128(3). doi:10.1029/2022JC019413

Constantinescu, R., White, J. T., Connor, C., Cole, P., Fontijn, K., Barclay, J., & Robertson, R. (2023). Estimation of eruption source parameters for the 2021 La Soufrière eruption (St. Vincent): implications for quantification of eruption magnitude on volcanic islands. *Geological Society Special Publication*, 539(1). doi:10.1144/SP539-2023-38

Andreastuti, S., Wright, H., Fontijn, K., & Miller, V. (2023). Editorial: Volcanic forecasting, crisis management, and risk communication. *Frontiers in Earth Science*, 11. doi:10.3389/feart.2023.1182252

Godart, P., Swyngedouw, E., Van Criekingen, M., & Van Heur, B. (2023). Les expulsions de logement à Bruxelles : combien, qui et où ? *Brussels Studies*, 176. doi:https://doi.org/10.4000/brussels.6434

Abdulrahman, A., Salih, N. N., Kamal, I. I., & Préat, A. (2023). Adopted Factorial and New In-Situ Micro-Designs for Stimulation of Matrix Acidizing of Carbonate Reservoir Rocks. *Applied Sciences (Switzerland)*, 13(3), 1752. doi:10.3390/app13031752

de Oliveira Amaral Quaresma, G., Costa dos Santos, A., Rocha-Júnior, E. R. V., Bonifácio, J., Queiroz Rego, C. A., Mata, J., de Morisson Valeriano, C., Jourdan, F., Mattielli, N., & Geraldes, M. C. (2023). Isotopic constraints on Davis bank, Vitória-Trindade Ridge: A Revised Petrogenetic Model. *Journal of South American earth sciences*, 122, 104099. doi:10.1016/j.jsames.2022.104099

Callorda Fossati, E., Sureau, S., & Bauler, T. (2023). L'exnovation: conceptualiser la sortie de la mobilité non-durable à Bruxelles. *La Revue nouvelle*,(2023-2), 38-49.

Corkill, M., Moreau, S., Janssens, J., Fraser, A. A., Heil, P., Tison, J.-L., Cougnon, E. E., Genovese, C., Kimura, N., Meiners, K. M., Wongpan, P., & Lannuzel, D. (2023). Physical and Biogeochemical Properties of Rotten East Antarctic Summer Sea Ice. *Journal of geophysical research. Oceans*, 128(2), e2022JC018875. doi:10.1029/2022JC018875

Tadesse, A., Fontijn, K., Caricchi, L., Bégué, F., Gudbrandsson, S., Smith, V., Gopon, P., Debaille, V., Laha, P., Terryn, H., Yirgu, G., & Ayalew, D. (2023). Pre-eruptive storage conditions and magmatic evolution of the Bora-Baricha-Tullu Moye volcanic system, Main Ethiopian Rift. *Lithos*, 107088. doi:10.1016/j.lithos.2023.107088

Fripiat, F., Sigman, D. M., Martínez-García, A., Marconi, D., Ai, X. E., Auderset, A., Fawcett, S. E., Moretti, S., Studer, A. S., & Haug, G. H. (2023). The Impact of Incomplete Nutrient Consumption in the Southern Ocean on Global Mean Ocean Nitrate #15N. *Global biogeochemical cycles*, 37(2). doi:10.1029/2022GB007442

Wang, J., Xiao, F., Dobruszkes, F., & Wang, W. (2023). Seasonality of flights in China: Spatial heterogeneity and its determinants. *Journal of air transport management*, 108, 102354.

Tchouatcha, M. S., Kouske, A. P., Tamfuh, P. A., Préat, A., Toyama, R., Feumba, R., Ngounfack, V. T., Madjingain, V., Konglim, Y. B., & Tchameni, R. (2023). First evidence of sinter and travertine in Cameroon: fault reactivation and geothermal implications. *Comptes rendus. Géoscience*, 355(G2), 279-298. doi:10.5802/crgeos.230

Rochette, P., Baratoux, D., Braucher, R., Cornec, J., Debaille, V., Devouard, B., Gattacceca, J., Gounelle, M., Jourdan, F., Moustard, F., & Nomade, S. (2023). Linking a distal ejecta with its source crater: a probabilistic approach applied to tektites. *Comptes rendus. Géoscience*, 355, 145-155. doi:10.5802/crgeos.206

Maeda, R., Van Acker, T., Vanhaecke, F., Yamaguchi, A., Debaille, V., Claeys, P., & Goderis, S. (2023). Quantitative elemental mapping of chondritic meteorites using laser ablation-inductively coupled plasma-time of flight-mass spectrometry (LA-ICP-TOF-MS). *Journal of analytical atomic spectrometry*, 38(2), 369-381. doi:10.1039/d2ja00317a

Grippa, T., & Dobruszkes, F. (2023). You're Surrounded! Measuring the Enclosure of Airports in Urban Areas. *The Professional geographer*, 75(1), 102-117. doi:10.1080/00330124.2022.2081226

Mattioli, G., Dobruszkes, F., Scheiner, J., & Wadud, Z. (2023). Editorial: Long-distance travel, between social inequality and environmental constraints. *Travel Behaviour and Society*, 30, 38-40. doi:10.1016/j.tbs.2022.08.006

Farmer, J. R., Pico, T., Underwood, O. M., Cleveland Stout, R., Granger, J., Cronin, T. M., Fripiat, F., Martínez-García, A., Haug, G. H., & Sigman, D. M. (2023). The Bering Strait was flooded 10,000 years before the Last Glacial Maximum. *Proceedings of the National Academy of Sciences of the United States of America*, 120(1). doi:10.1073/pnas.2206742119

Van De Velde, S., Dale, A. W., & Arndt, S. (2023). Bioturbation and the # 56 Fe signature of dissolved iron fluxes from marine sediments. *Royal Society open science*, 10, 220010. doi:10.1098/rsos.220010

Wallington, H., Hendry, K. K., Perkins, R., Yallop, M. L., & Arndt, S. (2023). Benthic diatoms modify riverine silicon export to a marine zone in a hypertidal estuarine environment. *Biogeochemistry*, 162(2), 177-200. doi:10.1007/s10533-022-00997-7

Deguine, A., Petitprez, D., Clarisse, L., Deschutter, L., Fontijn, K., & Herve, H. (2023). Retrieval of refractive indices of ten volcanic ash samples in the infrared, visible and ultraviolet spectral region. *Journal of aerosol science*, 167, 106100. doi:10.1016/j.jaerosci.2022.106100

2022

Callorda Fossati, E., Sureau, S., Pel, B., Bauler, T., & Achten, W. (2022). Exnovation : imaginer autrement les transitions durables à Bruxelles. *Brussels Studies*.

Wild, B., Gerrits, R., & Bonneville, S. (2022). The contribution of living organisms to rock weathering in the critical zone. *npj Materials degradation*, 6(1). doi:10.1038/s41529-022-00312-7

Caudron, C., Vandemeulebrouck, J., & Sohn, R. R. (2022). Turbulence-induced bubble nucleation in hydrothermal fluids beneath Yellowstone Lake. *Communications Earth and Environment*, 3(1), 103. doi:10.1038/s43247-022-00417-6

Ardid, A., Dempsey, D., Caudron, C., & Cronin, S. (2022). Seismic precursors to the Whakaari 2019 phreatic eruption are transferable to other eruptions and volcanoes. *Nature communications*, 13(1), 2002. doi:10.1038/s41467-022-29681-y

Ding, T., Steubing, B., & Achten, W. (2022). Coupling optimization with territorial LCA to support agricultural land-use planning. *Journal of environmental management*, 328, 116946. doi:10.1016/j.jenvman.2022.116946

Ding, T., & Achten, W. (2022). Coupling agent-based modeling with territorial LCA to support agricultural land-use planning. *Journal of cleaner production*, 380, 134914. doi:10.1016/j.jclepro.2022.134914

Bradley, J. J., Hülse, D., LaRowe, D. E., & Arndt, S. (2022). Transfer efficiency of organic carbon in marine sediments. *Nature communications*, 13(1), 7297. doi:10.1038/s41467-022-35112-9

de Graaff, S. S., Ross, C. H., Feignon, J. G., Stockli, D. F., Kaskes, P., Gulick, S. S., Goderis, S., Déhais, T., Debaille, V., Ferrière, L., Koeberl, C., Mattielli, N., & Claeys, P. (2022). The Chicxulub impact structure reveals the first in-situ Jurassic-aged magmatic intrusions of the Yucatán Peninsula, Mexico. *Lithos*.

Sarbast, R., Salih, N. N., & Préat, A. (2022). A Critical Overview of ASP and Future Perspectives of NASP in EOR of Hydrocarbon Reservoirs: Potential Application, Prospects, Challenges and Governing Mechanisms. *Nanomaterials*, 12(22), 4007. doi:10.3390/nano12224007

Morlighem, C., Chaiban, C., Georganos, S., Brousse, O., Van de Walle, J., Van Lipzig, N. P. M., Wolff, E., Dujardin, S., & Linard, C. (2022). The Multi-Satellite Environmental and Socioeconomic Predictors of Vector-Borne Diseases in African Cities: Malaria as an Example. *Remote Sensing*, 14(21), 5381. doi:10.3390/rs14215381

Dobruszkes, F., & Ibrahim, C. (2022). “High fuel efficiency is good for the environment”: Balancing gains in fuel efficiency against trends in absolute consumption in the passenger aviation sector. *International Journal of Sustainable Transportation*, 16(11), 1047-1057. doi:10.1080/15568318.2022.2106463

Hülse, D., Vervoort, P., Van De Velde, S., Kanzaki, Y., Boudreau, B., Arndt, S., Bottjer, D., Hoogakker, B., Kuderer, M., Middelburg, J., Volkenborn, N., Kirtland Turner, S., & Ridgwell, A. (2022). Assessing the impact of bioturbation on sedimentary isotopic records through numerical models. *Earth-science reviews*, 234, 104213. doi:10.1016/j.earscirev.2022.104213

Berns, H., Lenel, E., Schaut, C., & Van Hamme, G. (2022). Pour un changement de paradigme dans la politique d’attractivité résidentielle en Région de Bruxelles-Capitale. *Brussels Studies*,(172).

Ciplet, D., Falzon, D., Uri, I., Robinson, S.-A., Weikmans, R., & Roberts, T. J. (2022). The unequal geographies of climate finance: Climate injustice and dependency in the world system. *Political geography*, 99, 102769. doi:10.1016/j.polgeo.2022.102769

Kazmierczak, E., Sun, S., Coulon, V., & Pattyn, F. (2022). Subglacial hydrology modulates basal sliding response of the Antarctic ice sheet to climate forcing. *The Cryosphere*, 16(10), 4537-4552. doi:10.5194/tc-16-4537-2022

van de Wal, R. S. W., Nicholls, R. J., Behar, D., McInnes, K., Stammer, D., Lowe, J. A., Church, J. A., DeConto, R., Fettweis, X., Goelzer, H., Haasnoot, M., Haigh, I. D., Hinkel, J., Horton, B. P., James, T. S., Jenkins, A., Le Cozannet, G., Levermann, A., Lipscomb, W. H., Marzeion, B., Pattyn, F., Payne, T., Pfeffer, T., Price, S. F., Seroussi, H., Sun, S., Veatch, W., & White, K. (2022). A high#end estimate of sea#level rise for practitioners. *Earth's future*. doi:10.1029/2022EF002751

Bacquaert, P., Decroly, J.-M., Deligne, C., Lannoy, P., May, X., & Marziali, V. (2022). Vulnérabilité hydrique et accès à l'eau d'hygiène : compromis de coexistence à Bruxelles. *Espaces et sociétés*, 186-187(3-4), 135-153.

Roberts, T. J., & Weikmans, R. (2022). Checking contentious counting. *Nature climate change*, 12, 887-888. doi:10.1038/s41558-022-01483-6

Debret, B., Ménez, B., Walter, B., Bouquerel, H., Bouilhol, P., Mattielli, N., Pisapia, C., Rigaudier, T., & Williams, H. M. (2022). High-pressure synthesis and storage of solid organic compounds in active subduction zones. *Science advances*, 8(37), eabo2397. doi:10.1126/sciadv.abo2397

Smittarello, D., Smets, B., Barrière, J., Michellier, C., Oth, A., Shreve, T., Grandin, R., Theys, N., Brenot, H., Cayol, V., Allard, P., Caudron, C., Chevrel, O., Darchambeau, F., de Buyl, P., Delhaye, L., Derauw, D., Ganci, G., Geirsson, H., Kamate Kaleghetso, E., Kambale Makundi, J., Kambale Nguomoja, I., Kasereka Mahinda, C., Kervyn, M., Kimanuka Ruriho, C., Le Mével, H., Molendijk, S., Namur, O., Poppe, S., Schmid, M., Subira, J. M. J., Wauthier, C., Yalire, M. M. M., d'Oreye, N., Kervyn, F., & Syavulisembo Muhindo, A. (2022). Precursor-free eruption triggered by edifice rupture at Nyiragongo volcano. *Nature (London)*, 609(7925), 83-88. doi:10.1038/s41586-022-05047-8

Dupuits, E., & Mancilla Garcia, M. (2022). Knowledge politics around water, development and ecosystem services in Ecuador: creative encounters and resistances. *Alternautas*. doi:10.31273/an.v9i2.1149

Pauw, P., Moslener, U., Zamarioli, L., Amerasinghe, N., Atela, J., Affana, J. P. B., Buchner, B., Klein, R., Mbeva, K., Puri, J., Roberts, T. J., Shawoo, Z., Watson, C., & Weikmans, R. (2022). Post-2025 climate finance target: how much more and how much better? *Climate Policy*, 22(9-10), 1241-1251. doi:10.1080/14693062.2022.2114985

Demissie, B., Nyssen, J., Annys, S., Negash, E., Gebrehiwet, T., Abay, F., & Wolff, E. (2022). Geospatial solutions for evaluating the impact of the Tigray conflict on farming. *Acta Geophysica*. doi:10.1007/s11600-022-00779-7

Dahdouh-Guebas, F., Mafaziya Nijamdeen, T., Huge, J., Dahdouh-Guebas, Y., Di Nitto, D., Hamza, A. J., Kodikara Arachchilage, S., Koedam, N., Mancilla Garcia, M., Mohamed, M., Mostert, L., Munga, C., Shankar Poti, M., Satyanarayana, B., Stiers, I., Van Puyvelde, K., Vanhove, M. P. M., Vande Velde, K., & Ratsimbazafy, H. (2022). The Mangal Play: A serious game to experience multi-stakeholder decision-making in complex

mangrove social-ecological systems. *Frontiers in marine science*, 9, 909793. doi:10.3389/fmars.2022.909793

Martínez-García, A., Jung, J., Ai, X., Sigman, D. M., Auderset, A., Duprey, N., Foreman, A., Fripiat, F., Leichliter, J., Lüdecke, T., Moretti, S., & Wald, T. (2022). Laboratory Assessment of the Impact of Chemical Oxidation, Mineral Dissolution, and Heating on the Nitrogen Isotopic Composition of Fossil#Bound Organic Matter. *Geochemistry, geophysics, geosystems*, 23(8). doi:10.1029/2022GC010396

Maters, E. C., Mulholland, D. S., Flament, P., De Jong, J., Mattielli, N., Deboudt, K., Dhont, G., & Bychkov, E. (2022). Laboratory study of iron isotope fractionation during dissolution of mineral dust and industrial ash in simulated cloud water. *Chemosphere*, 299, 134472. doi:10.1016/j.chemosphere.2022.134472

Zhang, H., Lauerwald, R., Regnier, P., Ciais, P., Van Oost, K., Naipal, V., Guenet, B., & Yuan, W. (2022). Estimating the lateral transfer of organic carbon through the European river network using a land surface model. *Earth System Dynamics*, 13(3), 1119-1144. doi:10.5194/esd-13-1119-2022

Towa Kouokam, E. B., Zeller, V., Merciai, S., Schmidt, J., & Achten, W. (2022). Toward the development of subnational hybrid input–output tables in a multiregional framework. *Journal of industrial ecology*, 1-19. doi:10.1111/jiec.13085

Ward, J., Hendry, K. K., Arndt, S., Faust, J. J., Freitas, F. F., Henley, S. S., Krause, J. J., März, C., Ng, H. C., Pickering, R. R., & Tessin, A. A. (2022). Stable silicon isotopes uncover a mineralogical control on the benthic silicon cycle in the Arctic Barents Sea. *Geochimica et cosmochimica acta*, 329, 206-230. doi:10.1016/j.gca.2022.05.005

Bradley, J. J., Arndt, S., Amend, J. J., Burwicz-Galerne, E., & LaRowe, D. E. (2022). Sources and Fluxes of Organic Carbon and Energy to Microorganisms in Global Marine Sediments. *Frontiers in microbiology*, 13, 910694. doi:10.3389/fmicb.2022.910694

Ward, J., Hendry, K. K., Arndt, S., Faust, J. J., Freitas, F. F., Henley, S. S., Krause, J. J., März, C., Tessin, A. A., & Airs, R. (2022). Benthic silicon cycling in the Arctic Barents Sea: a reaction-transport model study. *Biogeosciences*, 19(14), 3445-3467. doi:10.5194/bg-19-3445-2022

Zadsaleh, M., Masoudi, F., Pourkhorsandi, H., & Fontijn, K. (2022). Application of plagioclase mineral textures in lava, ash fall and surge deposits to examine young Damavand magmatic processes. *#Ul#m-i zam#n*, 32, 13-30. doi:10.22071/GSJ.2021.303195.1933

Vidal, C. M., Fontijn, K., Lane, C. S., Asrat, A., Barfod, D., Tomlinson, E. L., Piermattei, A., Hutchison, W., Tadesse, A., Yirgu, G., Deino, A. L., Moussallam, Y., Mohr, P., Williams, F., Mather, T. A., Pyle, D. M., & Oppenheimer, C. (2022). Geochronology and glass geochemistry of major pleistocene eruptions in the Main Ethiopian Rift: Towards a regional tephrostratigraphy. *Quaternary science reviews*, 290, 107601. doi:10.1016/j.quascirev.2022.107601

Cavitte, M. G., Goosse, H., Wauthy, S., Kausch, T., Tison, J.-L., Van Liefferinge, B., Pattyn, F., Lenaerts, J. T. M., & Claeys, P. (2022). From ice core to ground-penetrating

radar: representativeness of SMB at three ice rises along the Princess Ragnhild Coast, East Antarctica. *Journal of Glaciology*, 1-13. doi:10.1017/jog.2022.39

Bacquaert, P., Decroly, J.-M., Deligne, C., Lannoy, P., Marziali, V., & May, X. (2022). Vulnérabilité hydrique et compromis de coexistence à Bruxelles. *Espaces et sociétés*, 186-187(3-4), 135-153. doi:10.3917/esp.186.0135

Montanaro, C., Mick, E., Salas-Navarro, J., Caudron, C., Cronin, S., De Moor, J., Scheu, B., Stix, J., & Strehlow, K. (2022). Phreatic and Hydrothermal Eruptions: From Overlooked to Looking Over. *Bulletin of volcanology*, 84(6). doi:10.1007/s00445-022-01571-7

Colby, D., Pyle, D. M., Fontijn, K., Mather, T. A., Melaku, A. A., Mengesha, M., & Yirgu, G. (2022). Stratigraphy and eruptive history of Corbetti Caldera in the Main Ethiopian Rift. *Journal of volcanology and geothermal research*, 428, 107580. doi:10.1016/j.jvolgeores.2022.107580

Materi#, D., Kjær, H. A., Vallelonga, P., Tison, J.-L., Röckmann, T., & Holzinger, R. (2022). Nanoplastics measurements in Northern and Southern polar ice. *Environmental research*, 208, 112741. doi:10.1016/j.envres.2022.112741

Matoza, R., Fee, D., Assink, J., Iezzi, A., Green, D. A., Aalders, K. K., Toney, L., Lecocq, T. T., Krishnamoorthy, S., Lalande, J.-M., Nishida, K., De Geest, K. D. K., Haney, M., Ortiz, H., Brissaud, Q., Martire, L., Galmiche-Rolland, L., Vergados, P., Nippress, A., Landman Parker, J., Shani-Kadmiel, S., Witsil, A., Arrowsmith, S., Caudron, C., Watada, S., Perttu, A., Taisne, B., Mialle, P., Le Pichon, A., Vergoz, J., Hupe, P., Blom, P. S., Waxler, R., De Angelis, S., Snively, J., Ringler, A., Anthony, R. E., Jolly, A., Kilgour, G., Averbuch, G., Ripepe, M., Ichihara, M., Arciniega-Ceballos, A., Astafyeva, E., Ceranna, L., Cevuard, S., Che, I.-Y., De Negri, R., Ebeling, C., Evers, L., Franco-Marin, L., Gabrielson, T., Hafner, K., Harrison, R. G., Komjathy, A., Lacanna, G., Lyons, J., Macpherson, K., Marchetti, E., Mckee, K., Mellors, R., Mendo-Pérez, G., Mikesell, D., Munaibari, E., Oyola-Merced, M., Park, I., Pilger, C., Ramos, C., Aroca Ruiz, M., Sabatini, R., Schwaiger, H., Tailpied, D., Talmadge, C., Vidot, J., Webster, J., & Wilson, D. (2022). Atmospheric waves and global seismoacoustic observations of the January 2022 Hunga eruption, Tonga. *Science*. doi:10.1126/science.abo7063

Caudron, C., Soubestre, J., Lecocq, T., White, R. S., Brandsdóttir, B., & Krischer, L. (2022). Insights into the dynamics of the 2010 Eyjafjallajökull eruption using seismic interferometry and network covariance matrix analyses. *Earth and planetary science letters*, 585, 117502. doi:10.1016/j.epsl.2022.117502

De La Fuente Ruiz, M., Arndt, S., Marín-Moreno, H., & Minshull, T. T. (2022). Assessing the Benthic Response to Climate-Driven Methane Hydrate Destabilisation: State of the Art and Future Modelling Perspectives. *Energies*, 15(9), 3307. doi:10.3390/en15093307

Abascal, A., Rodríguez-Carreño, I., Vanhuysse, S., Georganos, S., Sliuzas, R., Wolff, E., & Kuffer, M. M. (2022). Identifying degrees of deprivation from space using deep learning and morphological spatial analysis of deprived urban areas. *Computers, environment and urban systems*, 95, 101820. doi:10.1016/j.compenvurbsys.2022.101820

Gili, S., Vanderstraeten, A., Chaput, A., King, J., Gaiero, D., Delmonte, B., Vallelonga, P., Formenti, P., Di Biagio, C., Cazanau, M., Pangui, E., Doussin, J.-F., & Mattielli, N. (2022).

South African dust contribution to the high southern latitudes and East Antarctica during interglacial stages. *Nature communications*, 3(129), 1-12.

Middleton, C., Gopalakrishnan, S. S., Berenstein, I., Knaepen, B., Tison, J.-L., & De Wit, A. (2022). Relative role of short interfacial fingers and long internally driven streamers in convective flows below growing sea ice. *Physical Review Fluids*, 7(4), 043503. doi:10.1103/PhysRevFluids.7.043503

Casier, C., & Decroly, J.-M. (2022). « Qu'aurais-je trouvé de plus chouette à Paris, Lyon ou Marseille ? » Socio-démo-géographie des Français·es de Bruxelles. *EchoGeo*,(59).

Dai, M., Su, J., Zhao, Y., Hofmann, E., Cao, Z., Cai, W.-J., Gan, J., Lacroix, F., Laruelle, G. G., Meng, F., Müller, J. D., Regnier, P., Wang, G., & Wang, Z. (2022). Carbon Fluxes in the Coastal Ocean: Synthesis, Boundary Processes and Future Trends. *Annual review of earth and planetary sciences*, 50(1). doi:10.1146/annurev-earth-032320-090746

Robinet, S., Matossian, A. O., Capet, A., Chou, L., Fontaine, F., Gregoire, M., Lepoint, G., Piotrowska, N., Plante, A., Romín, O. R., & Fagel, N. (2022). A Multi-Proxy Approach to Reconstruct Hypoxia on the NW Black Sea Shelf over the Holocene. *Journal of Marine Science and Engineering*, 10(3), 319. doi:10.3390/jmse10030319

Regnier, P., Resplandy, L. L., Najjar, R. R., & Ciais, P. (2022). The land-to-ocean loops of the global carbon cycle. *Nature (London)*, 603(7901), 401-410. doi:10.1038/s41586-021-04339-9

Dobruszkes, F., Decroly, J.-M., & Suau-Sanchez, P. (2022). The monthly rhythms of aviation: A global analysis of passenger air service seasonality. *Transportation Research Interdisciplinary Perspectives*, 14, 100582. doi:10.1016/j.trip.2022.100582

Dobruszkes, F., & Vandermotten, C. (2022). Do scale and the type of markets matter? Revisiting the determinants of passenger air services worldwide. *Journal of air transport management*, 99, 102178. doi:10.1016/j.jairtraman.2021.102178

Dobruszkes, F., Chen, C.-L., Moyano, A., Pagliara, F., & Endemann, P. (2022). Is high-speed rail socially exclusive? An evidence-based worldwide analysis. *Travel Behaviour and Society*, 26, 96-107. doi:10.1016/j.tbs.2021.09.009

Keblowski, W., Dobruszkes, F., & Boussauw, K. (2022). Moving past sustainable transport studies: Towards a critical perspective on urban transport. *Transportation research. Part A, Policy and practice*, 159, 74-83. doi:10.1016/j.tra.2022.02.008

Zhang, H., Chuine, I., Regnier, P., Ciais, P., & Yuan, W. (2022). Deciphering the multiple effects of climate warming on the temporal shift of leaf unfolding. *Nature climate change*, 12(2), 193-199. doi:10.1038/s41558-021-01261-w

Ciais, P., Bastos, A., Chevallier, F., Lauerwald, R., Poulter, B., Canadell, P., Hugelius, G., Jackson, R. B., Jain, A., Jones, M., Kondo, M., Luijkx, I. I., Patra, P. P., Peters, W., Pongratz, J., Petrescu, A. M. R., Piao, S., Qiu, C., Von Randow, C., Regnier, P., Saunois, M., Scholes, R., Shvidenko, A., Tian, H., Yang, H., Wang, X., & Zheng, B. (2022). Definitions and methods to estimate regional land carbon fluxes for the second

phase of the REgional Carbon Cycle Assessment and Processes Project (RECCAP-2). *Geoscientific Model Development*, 15(3), 1289-1316. doi:10.5194/gmd-15-1289-2022

Gommet, C., Lauerwald, R., Ciais, P., Guenet, B., Zhang, H., & Regnier, P. (2022). Spatiotemporal patterns and drivers of terrestrial dissolved organic carbon (DOC) leaching into the European river network. *Earth System Dynamics*, 13(1), 393-418. doi:10.5194/esd-13-393-2022

Wei, X., Garnier, J., Thieu, V., Passy, P., Le Gendre, R., Billen, G., Akopian, M., & Laruelle, G. G. (2022). Nutrient transport and transformation in macrotidal estuaries of the French Atlantic coast: a modeling approach using the Carbon-Generic Estuarine Model. *Biogeosciences*, 19(3), 931-955. doi:10.5194/bg-19-931-2022

Tollenaar, V., Zekollari, H., Lhermitte, S., Tax, D. M., Debaille, V., Goderis, S., Claeys, P., & Pattyn, F. (2022). Unexplored Antarctic meteorite collection sites revealed through machine learning. *Science advances*, 8(4). doi:10.1126/sciadv.abj8138

Roobaert, A., Resplandy, L. L., Laruelle, G. G., Liao, E. E., & Regnier, P. (2022). A framework to evaluate and elucidate the driving mechanisms of coastal sea surface pCO2 seasonality using an ocean general circulation model (MOM6-COBALT). *Ocean science*, 18, 67-88.

Stavert, A., Saunois, M., Canadell, J. J., Poulter, B., Jackson, R. B., Regnier, P., Lauerwald, R., Raymond, P. A., Allen, G. G., Patra, P. P., Bergamaschi, P., Bousquet, P., Chandra, N., Ciais, P., Gustafson, A., Ishizawa, M., Ito, A., Kleinen, T., Maksyutov, S., McNorton, J., Melton, J., Müller, J., Niwa, Y., Peng, S., Riley, W., Segers, A., Tian, H., Tsuruta, A., Yin, Y., Zhang, Z., Zheng, B., & Zhuang, Q. (2022). Regional trends and drivers of the global methane budget. *Global change biology*, 28(1), 182-200. doi:10.1111/gcb.15901

Thompson, R. L., Groot Zwaaftink, C. D., Brunner, D., Tsuruta, A., Aalto, T., Raivonen, M., Crippa, M., Solazzo, E., Guizzardi, D., Regnier, P., & Maisonnier, M. (2022). Effects of extreme meteorological conditions in 2018 on European methane emissions estimated using atmospheric inversions. *Philosophical transactions - Royal Society. Mathematical, Physical and engineering sciences*, 380(2215). doi:10.1098/rsta.2020.0443

Durand, G., van den Broeke, M. R., Le Cozannet, G., Edwards, T. L., Holland, P. R., Jourdain, N. C., Marzeion, B., Mottram, R., Nicholls, R. J., Pattyn, F., Paul, F., Slangen, A., Winkelmann, R., Burgard, C., van Calcar, C., Barré, J.-B., Bataille, A., & Chapuis, A. (2022). Sea-Level Rise: From Global Perspectives to Local Services. *Frontiers in marine science*, 8. doi:10.3389/fmars.2021.709595

Pelletier, C., Fichefet, T., Goosse, H., Haubner, K., Helsen, S., Huot, P. V., Kittel, C., Klein, F., Le clec'h, S., van Lipzig, N. P. M., Marchi, S., Massonnet, F., Mathiot, P., Moravveji, E., Moreno-Chamarro, E., Ortega, P., Pattyn, F., Souverijns, N., Van Achter, G., Vanden Broucke, S., Vanhulle, A., Verfaillie, D., & Zipf, L. (2022). PARASO, a circum-Antarctic fully coupled ice-sheet–ocean–sea-ice–atmosphere–land model involving f.ETISh1.7, NEMO3.6, LIM3.6, COSMO5.0 and CLM4.5. *Geoscientific Model Development*, 15(2), 553-594. doi:10.5194/gmd-15-553-2022

Van Hamme, G., & Gana, A. (2022). Social classes and political Islam: a comparative ecological approach of post-Arab Spring elections in Northern Africa (2011- 2014). *British journal of Middle Eastern studies*. doi:10.1080/13530194.2022.2079116

Caudron, C., & Aoki, Y. (2022). Hidden pressurized fluids prior to the 2014 phreatic eruption at Mt Ontake. *Nature communications*, 13(1), 6145.

Dobruszkes, F., Mattioli, G., & Mathieu, L. (2022). Banning super short-haul flights: Environmental evidence or political turbulence? *Journal of transport geography*, 104, 103457. doi:10.1016/j.jtrangeo.2022.103457

Tadesse, A., Fontijn, K., Assen Melaku, A., Filfilu Gebru, E., Smith, V., Tomlinson, E. L., Barfod, D., Gopon, P., Bégué, F., Caricchi, L., Laha, P., Terryn, H., Gudbrandsson, S., Yirgu, G., & Ayalew, D. (2022). Eruption frequency and magnitude in a geothermally active continental rift: The Bora-Baricha-Tullu Moye volcanic complex, Main Ethiopian Rift. *Journal of volcanology and geothermal research*, 107471. doi:10.1016/j.jvolgeores.2022.107471

2021

Bennett, G., Van Reybrouck, J., Shemsanga, C., Kisaka, M., Tomašek, I., Fontijn, K., Kervyn, M., & Walraevens, K. (2021). Identification of low fluoride areas using conceptual groundwater flow model and hydrogeochemical system analysis in the aquifer system on the flanks of an active volcano: Mount Meru, Northern Tanzania. *Science of the total environment*., 172613. doi:10.1016/j.scitotenv.2024.172613

Salih, N. N., Mansurbeg, H., Muchez, P., Gerdes, A., & Préat, A. (2021). Hydrothermal fluids and cold meteoric waters along tectonic-controlled open spaces in upper cretaceous carbonate rocks, ne-iraq: Scanning data from in situ u-pb geochronology and microthermometry. *Water (Switzerland)*, 13(24), 3559. doi:10.3390/w13243559

Xu, R., Tian, H., Pan, N., Thompson, R. L., Canadell, J. J., Davidson, E. A., Nevison, C., Winiwarter, W., Shi, H., Pan, S., Chang, J., Ciais, P., Dangal, S., Ito, A., Jackson, R. B., Joos, F., Lauerwald, R., Lienert, S., Maavara, T., Millet, D. D., Raymond, P. A., Regnier, P., Tubiello, F. N., Vuichard, N., Wells, K. C., Wilson, C. C., Yang, J., Yao, Y., Zaehle, S., & Zhou, F. (2021). Magnitude and Uncertainty of Nitrous Oxide Emissions From North America Based on Bottom-Up and Top-Down Approaches: Informing Future Research and National Inventories. *Geophysical research letters*, 48(23), e2021GL095264. doi:10.1029/2021GL095264

Terhaar, J., Lauerwald, R., Regnier, P., Gruber, N., & Bopp, L. (2021). Around one third of current Arctic Ocean primary production sustained by rivers and coastal erosion. *Nature communications*, 12(1), 169. doi:10.1038/s41467-020-20470-z

Georganos, S., Abascal, A., Kuffer, M. M., Wang, J., Owusu, M., Wolff, E., & Vanhuysse, S. (2021). Is it all the same? Mapping and characterizing deprived urban areas using worldview-3 superspectral imagery. a case study in nairobi, kenya. *Remote Sensing*, 13(24), 4986. doi:10.3390/rs13244986

Van Liefferinge, B., Taylor, D., Tsutaki, S., Fujita, S., Gogineni, P., Kawamura, K., Matsuoka, K., Moholdt, G., Oyabu, I., Abe-Ouchi, A., Awasthi, A., Buizert, C., Gallet, J., Isaksson, E., Motoyama, H., Nakazawa, F., Ohno, H., O'Neill, C., Pattyn, F., & Sugiura, K. (2021). Surface Mass Balance Controlled by Local Surface Slope in Inland Antarctica:

Implications for Ice#Sheet Mass Balance and Oldest Ice Delineation in Dome Fuji. *Geophysical research letters*, 48(24). doi:10.1029/2021GL094966

Rochette, P., Beck, P., Bizzarro, M., Braucher, R., Cornec, J., Debaille, V., Devouard, B., Gattacceca, J., Jourdan, F., Moustard, F., Moynier, F., Nomade, S., & Reynard, B. (2021). Impact glasses from Belize represent tektites from the Pleistocene Pantasma impact crater in Nicaragua. *Communications Earth and Environment*, 2(1), 94. doi:10.1038/s43247-021-00155-1

McCutcheon, J., Lutz, S., Williamson, C., Cook, J. M., Tedstone, A. A., Vanderstraeten, A., Wilson, S. S., Stockdale, A., Bonneville, S., Anesio, A. M., Yallop, M. L., McQuaid, J. B., Tranter, M., & Benning, L. G. (2021). Mineral phosphorus drives glacier algal blooms on the Greenland Ice Sheet. *Nature communications*, 12(1), 570. doi:10.1038/s41467-020-20627-w

Caudron, C., Girona, T., Jolly, A. A., Christenson, B., Savage, M., Carniel, R., Lecocq, T., Kennedy, B., Lokmer, I., Yates, A., Hamling, I., Park, I., Kilgour, G., & Mazot, A. (2021). A quest for unrest in multiparameter observations at Whakaari/White Island volcano, New Zealand 2007–2018. *Earth, planets and space*, 73(1). doi:10.1186/s40623-021-01506-0

Ahlström, H., Hileman, J., Wang-Erlandsson, L., Mancilla Garcia, M., Moore, M. L., Jonas, K., Pranindita, A., Kuiper, J. J., Fetzer, I., Jaramillo, F., & Svedin, U. (2021). An Earth system law perspective on governing social-hydrological systems in the Anthropocene. *Earth System Governance*, 10, 100120. doi:10.1016/j.esg.2021.100120

Dobruszkes, F., Grippa, T., Hanaoka, S., Loko, Y. B., Redondi, R., Vowles, T., & Wang, J. (2021). Multiple-airport systems: The (re)development of older airports in view of noise pollution issues. *Transport policy*. doi:10.1016/j.tranpol.2021.10.013

Pourret, O., Anand, P., Arndt, S., Bots, P., Dosseto, A., Li, Z., Marin Carbonne, J., Middleton, J., Ngwenya, B., & Riches, A. A. (2021). Diversity, equity, and inclusion: Tackling under-representation and recognition of talents in geochemistry and cosmochemistry. *Geochimica et cosmochimica acta*. doi:10.1016/j.gca.2021.05.054

März, C., Freitas, F. F., Faust, J. J., Godbold, J. J., Henley, S. S., Tessin, A. A., Abbott, G. G., Airs, R., Arndt, S., Barnes, D. K., Grange, L. L., Gray, N. D., Head, I. I., Hendry, K. K., Hilton, R. R., Reed, A., Rühl, S., Solan, M., Souster, T., Stevenson, M. A., Tait, K., Ward, J., & Widdicombe, S. (2021). Biogeochemical consequences of a changing Arctic shelf seafloor ecosystem. *Ambio*. doi:10.1007/s13280-021-01638-3

Bennett, G., Van Reybrouck, J., Shemsanga, C., Kisaka, M., Tomašek, I., Fontijn, K., Kervyn, M., & Walraevens, K. (2021). Identification of low fluoride areas using conceptual groundwater flow model and hydrogeochemical system analysis in the aquifer system on the flanks of an active volcano: Mount Meru, Northern Tanzania. *Science of the total environment*, 152682. doi:10.1016/j.scitotenv.2021.152682

Biggs, J., Ayele, A., Fischer, T. P., Fontijn, K., Hutchison, W., Kazimoto, E., Whaler, K., & Wright, T. J. (2021). Volcanic activity and hazard in the East African Rift Zone. *Nature communications*, 12(1). doi:10.1038/s41467-021-27166-y

Armeni, C., & Lee, M. (2021). Participation in a Time of Climate Crisis. *Journal of law and society*, 48(4), 549-572. doi:10.1111/jols.12320

Geilfus, N. X., Munson, K., Lemes, M., Wang, F., Tison, J.-L., & Rysgaard, S. (2021). Meteoric water contribution to sea ice formation and its control of the surfacewater carbonate cycle on the Wandel Sea shelf, northeastern Greenland. *Elementa (Washington, D.C.)*, 9(1), 9. doi:10.1525/elementa.2021.00004

Fripiat, F., Martínez-García, A., Marconi, D., Fawcett, S. E., Kopf, S., Luu, V. H., Rafter, P. A., Zhang, R., Sigman, D. M., & Haug, G. H. (2021). Nitrogen isotopic constraints on nutrient transport to the upper ocean. *Nature Geoscience*. doi:10.1038/s41561-021-00836-8

Campbell, K., Matero, I., Bellas, C., Turpin-Jelfs, T., Anhaus, P., Graeve, M., Fripiat, F., Tranter, M., Landy, J. C., Sanchez-Baracaldo, P., Leu, E., Katlein, C., Mundy, C. J., Rysgaard, S., Tedesco, L., Haas, C., & Nicolaus, M. (2021). Monitoring a changing Arctic: Recent advancements in the study of sea ice microbial communities. *Ambio*. doi:10.1007/s13280-021-01658-z

Pika, P. P., Hülse, D., & Arndt, S. (2021). OMEN-SED(-RCM) (v1.1): A pseudo-reactive continuum representation of organic matter degradation dynamics for OMEN-SED. *Geoscientific Model Development*, 14(11), 7155-7174. doi:10.5194/gmd-14-7155-2021

Hülse, D., Lau, K. V., Van De Velde, S., Arndt, S., Meyer, K. M., & Ridgwell, A. (2021). End-Permian marine extinction due to temperature-driven nutrient recycling and euxinia. *Nature Geoscience*, 14(11), 862-867. doi:10.1038/s41561-021-00829-7

Jacques, C., Sapart, C., Fripiat, F., Carnat, G., Zhou, J., Delille, B., Röckmann, T., Van der Veen, C., Niemann, H., Haskell, T., & Tison, J.-L. (2021). Sources and sinks of methane in sea ice: Insights from stable isotopes. *Elementa: Science of the Anthropocene*, 9(1). doi:10.1525/elementa.2020.00167

Van Criekingen, M. (2021). Gentrification et résistances ordinaires des quartiers populaires. Élaboration théorique et illustration empirique sur un terrain bruxellois. *Espace populations sociétés*, 2021(2-3). doi:https://doi.org/10.4000/eps.12032

May, X., Bacquaert, P., Decroly, J.-M., De Guiran, L., Deligne, C., Lannoy, P., & Marziali, V. (2021). Formes, facteurs et importance de la vulnérabilité hydrique dans une métropole européenne: Le cas de Bruxelles. *EchoGeo*, 57, 22098.

Lacroix, F., Ilyina, T., Mathis, M., Laruelle, G. G., & Regnier, P. (2021). Historical increases in land-derived nutrient inputs may alleviate effects of a changing physical climate on the oceanic carbon cycle. *Global change biology*. doi:10.1111/gcb.15822

Depicker, A., Jacobs, L., Mboga, N. O., Smets, B., Van Rompaey, A., Lennert, M., Wolff, E., Kervyn, F., Michellier, C., Dewitte, O., & Govers, G. (2021). Author Correction: Historical dynamics of landslide risk from population and forest-cover changes in the Kivu Rift (Nature Sustainability, (2021), 10.1038/s41893-021-00757-9). *Nature Sustainability*, 4(10), 920. doi:10.1038/s41893-021-00788-2

Pourkhorsandi, H., Debaille, V., Gattacceca, J., Greenwood, R., Leduc, T., De Ceukelaire, M., Decrée, S., & Goderis, S. (2021). Tintigny meteorite: the first Belgian achondrite. *Planetary and space science*, 209, 105372. doi:10.1016/j.pss.2021.105372

Towa Kouokam, E. B., Zeller, V., & Achten, W. (2021). Assessing the circularity of regions: Stakes of trade of waste for treatment. *Journal of industrial ecology*, 25(4), 834-847.

Towa Kouokam, E. B., Zeller, V., Merciai, S., & Achten, W. (2021). Regional waste footprint and waste treatments analysis. *Waste management*, 124, 172-184.

Papangelou, A., Towa Kouokam, E. B., Achten, W., & Mathijs, E. (2021). A resource-based phosphorus footprint for urban diets. *Environmental Research Letters*, 16(7), 075002.

Hertz, T., & Mancilla Garcia, M. (2021). The Cod and the Cut: Intra-Active Intuitions. *Frontiers in Sociology*, 6, 724751. doi:10.3389/fsoc.2021.724751

Jericó-Daminello, C., Schröter, B., Mancilla Garcia, M., & Albert, C. (2021). Exploring perceptions of stakeholder roles in ecosystem services coproduction. *Ecosystem services*, 51, 101353. doi:10.1016/j.ecoser.2021.101353

Tomašek, I., Mouri, H., Dille, A., Bennett, G., Bhattacharya, P., Brion, N., Elskens, M., Fontijn, K., Gao, Y., Gevera, P. K., Ijumulana, J., Kisaka, M., Leermakers, M., Shemsanga, C., Walraevens, K., Wragg, J., & Kervyn, M. (2021). Naturally occurring potentially toxic elements in groundwater from the volcanic landscape around Mount Meru, Arusha, Tanzania and their potential health hazard. *Science of the total environment*, 807, 150487. doi:10.1016/j.scitotenv.2021.150487

Fay, A. A., Gregor, L., Landschutzer, P., McKinley, G. G., Gruber, N., Gehlen, M., Iida, Y., Laruelle, G. G., Rödenbeck, C., Roobaert, A., & Zeng, J. (2021). SeaFlux: Harmonization of air-sea CO2 fluxes from surface pCO2 data products using a standardized approach. *Earth System Science Data*, 13(10), 4693-4710. doi:10.5194/essd-13-4693-2021

Blouet, J.-P., Arndt, S., Imbert, P., & Regnier, P. (2021). Are seep carbonates quantitative proxies of CH4 leakage? Modeling the influence of sulfate reduction and anaerobic oxidation of methane on pH and carbonate precipitation. *Chemical geology*, 577, 120254. doi:10.1016/j.chemgeo.2021.120254

Nowé, S., Lecocq, T., Caudron, C., Jónsdóttir, K., & Pattyn, F. (2021). Permanent, seasonal, and episodic seismic sources around Vatnajökull, Iceland, from the analysis of correlograms. *Volcanica*, 135-147. doi:10.30909/vol.04.02.135147

Ding, T., Bourrelly, S., & Achten, W. (2021). Application of territorial emission factors with open-access data—a territorial LCA case study of land use for livestock production in Wallonia. *The international journal of life cycle assessment*. doi:10.1007/s11367-021-01949-3

Mboga, N. O., D'Aronco, S., Grippa, T., Pelletier, C., Georganos, S., Vanhuysse, S., Wolff, E., Smets, B., Dewitte, O., Lennert, M., & Wegner, J. D. (2021). Domain Adaptation for

Semantic Segmentation of Historical Panchromatic Orthomosaics in Central Africa. *ISPRS International Journal of Geo-Information*, 10(8), 523. doi:10.3390/ijgi10080523

Sabaux, C., Veselka, B., Capuzzo, G., Snoeck, C., Sengeløv, A., Hlad, M., Warmenbol, E., Stamataki, E., Boudin, M., Annaert, R., Dalle, S., Salesse, K., Debaille, V., Tys, D., Vercauteren, M., & De Mulder, G. (2021). Multi-proxy analyses reveal regional cremation practices and social status at the Late Bronze Age site of Herstal, Belgium. *Journal of archaeological science*, 132, 105437. doi:10.1016/j.jas.2021.105437

Farmer, J. R., Sigman, D. M., Granger, J., Underwood, O. M., Fripiat, F., Cronin, T. M., Martínez-García, A., & Haug, G. H. (2021). Arctic Ocean stratification set by sea level and freshwater inputs since the last ice age. *Nature Geoscience*. doi:10.1038/s41561-021-00789-y

Freitas, F. F., Pika, P. P., Kasten, S., Jørgensen, B. B., Rassmann, J., Rabouille, C., Thomas, S., Sass, H., Pancost, R., & Arndt, S. (2021). New insights into large-scale trends of apparent organic matter reactivity in marine sediments and patterns of benthic carbon transformation. *Biogeosciences*, 18(15), 4651-4679. doi:10.5194/bg-18-4651-2021

Bennett, G., Van Reybrouck, J., Shemsanga, C., Kisaka, M., Tomašek, I., Fontijn, K., Kervyn, M., & Walraevens, K. (2021). Hydrochemical Characterisation of High-Fluoride Groundwater and Development of a Conceptual Groundwater Flow Model Using a Combined Hydrogeological and Hydrochemical Approach on an Active Volcano: Mount Meru, Northern Tanzania. *Water (Switzerland)*, 13(16), 2159. doi:10.3390/w13162159

Nguyen, A. T., Némery, J., Gratiot, N., Garnier, J., Dao, T. S., Thieu, V., & Laruelle, G. G. (2021). Biogeochemical functioning of an urbanized tropical estuary: Implementing the generic C-GEM (reactive transport) model. *Science of the total environment*, 784, 147261. doi:10.1016/j.scitotenv.2021.147261

Kaskes, P., De Graaff, S. J., Feignon, J. G., Déhais, T., Goderis, S., Ferrière, L., Koeberl, C., Smit, J., Wittmann, A., Gulick, S. S., Debaille, V., Mattielli, N., & Claeys, P. (2021). Formation of the crater suevite sequence from the Chicxulub peak ring: A petrographic, geochemical, and sedimentological characterization. *Geological Society of America bulletin*.

Coulon, V., Bulthuis, K., Whitehouse, P. L., Sun, S., Haubner, K., Zipf, L., & Pattyn, F. (2021). Contrasting Response of West and East Antarctic Ice Sheets to Glacial Isostatic Adjustment. *Journal of Geophysical Research: Earth Surface*, 126(7). doi:10.1029/2020JF006003

Hardy, O. J., Dubourg, D., Bourguignon, M., Dellicour, S., Eggerickx, T., Gilbert, M., Sanderson, J.-P., Scohy, A., Vandael, E., & Decroly, J.-M. (2021). A world apart: Levels and determinants of excess mortality due to COVID-19 in care homes: The case of the Belgian region of Wallonia during the spring 2020 wave. *Demographic Research*, 45, 1011-1040. doi:10.4054/DemRes.2021.45.33

Maeda, R., Goderis, S., Debaille, V., Pourkhorsandi, H., Hublet, G., & Claeys, P. (2021). The effects of Antarctic alteration and sample heterogeneity on Sm-Nd and

Lu-Hf systematics in H chondrites. *Geochimica et cosmochimica acta*, 305, 106-129. doi:10.1016/j.gca.2021.05.005

Soens, B., Van Ginneken, M., Chernonozhkin, S. S., Slotte, N., Debaille, V., Vanhaecke, F., Terryn, H., Claeys, P., & Goderis, S. (2021). Australasian microtektites across the Antarctic continent: Evidence from the Sør Rondane Mountain range (East Antarctica). *Geoscience Frontiers*, 12(4), 101153. doi:10.1016/j.gsf.2021.101153

Mancilla Garcia, M., & Bodin, Ö. (2021). Uncovering Relationships between Being Influential, Participating in Multiple Forums, and having Many Social Ties in Water Governance in Brazil. *Human ecology review*, 26(2), 17-37. doi:10.22459/HER.26.02.2020.02

Murguia-Flores, F., Ganesan, A., Arndt, S., & Hornibrook, E. (2021). Global Uptake of Atmospheric Methane by Soil From 1900 to 2100. *Global biogeochemical cycles*, 35(7), e2020GB006774. doi:10.1029/2020GB006774

Kisaka, M., Fontijn, K., Shemsanga, C., Tomašek, I., Gaduputi, S., Debaille, V., Delcamp, A., & Kervyn, M. (2021). The Late Quaternary Eruptive History of Meru Volcano, Northern Tanzania. *Journal of volcanology and geothermal research*, 417, 107314. doi:10.1016/j.jvolgeores.2021.107314

Santos Mulholland, D., Flament, P., De Jong, J., Mattielli, N., Deboudt, K., Dhont, G., & Bychkov, E. (2021). IN-CLOUD PROCESSING AS A POSSIBLE SOURCE OF ISOTOPICALLY LIGHT IRON FROM ANTHROPOGENIC AEROSOLS: NEW INSIGHTS FROM A LABORATORY STUDY. *Atmospheric environment*.

Zeng, Z., Li, X., Chen, S., De Jong, J., Mattielli, N., Qi, H., Pearce, C., & Murton, B. B. (2021). Iron, copper, and zinc isotopic fractionation in seafloor basalts and hydrothermal sulfides. *Marine geology*, 436, 106491. doi:10.1016/j.margeo.2021.106491

Veselka, B., Capuzzo, G., Annaert, R., Mattielli, N., Boudin, M., Dalle, S., Hlad, M., Sabaux, C., Salesse, K., Sengeløv, A., Stamataki, E., Tys, D., Vercauteren, M., Warmenbol, E., De Mulder, G., & Snoeck, C. (2021). Divergence, diet, and disease: the identification of group identity, landscape use, health, and mobility in the fifth- to sixth-century AD burial community of Echt, the Netherlands. *Archaeological and Anthropological Sciences*, 13(6), 97. doi:10.1007/s12520-021-01348-7

Morfopoulos, C., Muller, J. F., Stavrakou, T., Bauwens, M., De Smedt, I., Friedlingstein, P., Prentice, I. C., & Regnier, P. (2021). Vegetation responses to climate extremes recorded by remotely sensed atmospheric formaldehyde. *Global change biology*. doi:10.1111/gcb.15880

Bianchi, T. S., Aller, R. C., Atwood, T. B., Brown, C., Buatois, L. A., Levin, L. A., Levinton, J. J., Middelburg, J., Morrison, E. E., Regnier, P., Shields, M. M., Snelgrove, P. P., Sotka, E. E., & Stanley, R. R. (2021). What global biogeochemical consequences will marine animal-sediment interactions have during climate change? *Elementa (Washington, D.C.)*, 9(1), 180. doi:10.1525/elementa.2020.00180

Glaude, Q., Derauw, D., Barbier, C., & Pattyn, F. (2021). The added-value of TOPSAR coherence tracking for sentinel-1 interferometry over ice shelves. *Proceedings of the European Conference on Synthetic Aperture Radar, EUSAR*, 2021-March, 732-736.

Glaude, Q., Derauw, D., Barbier, C., & Pattyn, F. (2021). Fast azimuthal displacement retrieval from TOPSAR burst overlapping interferometry: Application in dronning Maud Land (Antarctica). *Proceedings of the European Conference on Synthetic Aperture Radar, EUSAR*, 2021-March, 851-854.

Boussauw, K., & Decroly, J.-M. (2021). Territorializing International Travel Emissions: Geography and Magnitude of the Hidden Climate Footprint of Brussels. *Urban planning*, 6(2), 285-298. doi:10.17645/up.v6i2.3905

Roukaerts, A., Deman, F., Van der Linden, F., Carnat, G., Bratkic, A., Moreau, S., Lannuzel, D., Dehairs, F., Delille, B., Tison, J.-L., & Fripiat, F. (2021). The biogeochemical role of a microbial biofilm in sea ice: Antarctic landfast sea ice as a case study. *Elementa: Science of the Anthropocene*, 9(1). doi:10.1525/elementa.2020.00134

Marloye, M., Inam, H., Moore, C. J., Debaille, V., Pritchard, J. J., Gelbcke, M., Meyer, F., Dufrasne, F., & Berger, G. (2021). Synthesis, structure and anticancer properties of new biotin- and morpholine-functionalized ruthenium and osmium half-sandwich complexes. *JBIC. Journal of biological inorganic chemistry*. doi:10.1007/s00775-021-01873-9

Cubuk#Sabuncu, Y., Jónsdóttir, K., Caudron, C., Lecocq, T. T., Maree Parks, M., Geirsson, H., & Mordret, A. (2021). Temporal Seismic Velocity Changes During the 2020 Rapid Inflation at Mt. Þorbjörn#Svartsengi, Iceland, Using Seismic Ambient Noise. *Geophysical research letters*, 48(11). doi:10.1029/2020GL092265

Gelenbe, E., Brasseur, G., Chefneux, L., Dehant, V., Halloin, V., Haton, J.-P., Judkiewicz, D. M., Rentier, B., & Weikmans, R. (2021). On sharing knowledge and fostering "open science". *Ubiquity - Association for Computing Machinery*, 2021(05), 1-13. doi:10.1145/3462221

Robinson, S.-A., Khan, M., Roberts, T. J., Weikmans, R., & Ciplet, D. (2021). Financing loss and damage from slow onset events in developing countries. *Current Opinion in Environmental Sustainability*, 50, 138-148. doi:10.1016/j.cosust.2021.03.014

May, X., Bacquaert, P., Decroly, J.-M., De Guiran, L., Deligne, C., Lannoy, P., & Marziali, V. (2021). Pourquoi ne pas en finir avec la tarification progressive de l'eau à Bruxelles ? *Brussels Studies*., 156. doi:10.4000/brussels.5494

De Graaff, S. J., Kaskes, P., Déhais, T., Goderis, S., Debaille, V., Ross, C. H., Gulick, S. S., Feignon, J. G., Ferrière, L., Koeberl, C., Smit, J., Mattielli, N., & Claeys, P. (2021). New insights into the formation and emplacement of impact melt rocks within the Chicxulub impact structure, following the 2016 IODP-ICDP Expedition 364. *Geological Society of America bulletin*., https://doi.org/10.1130/B35795.1.

Triantafyllou, A., Mattielli, N., Clerbois, S., Da Silva, A. C., Kaskes, P., Claeys, P., Devleeschouwer, X., & Brkojewitsch, G. (2021). Optimizing multiple non-invasive techniques (PXRF, pMS, IA) to characterize coarse-grained igneous rocks used

as building stones. *Journal of archaeological science*, 129, 105376. doi:10.1016/j.jas.2021.105376

Petrescu, A. M. R., Qiu, C., Ciais, P., Thompson, R. L., Peylin, P., McGrath, M. M., Solazzo, E., Janssens-Maenhout, G., Tubiello, F. N., Bergamaschi, P., Brunner, D., Peters, G. P., Höglund-Isaksson, L., Regnier, P., Lauerwald, R., Bastviken, D., Tsuruta, A., Winiwarter, W., Patra, P. P., Kuhnert, M., Oreggioni, G. D., Crippa, M., Saunois, M., Perugini, L., Markkanen, T., Aalto, T., Groot Zwaaftink, C. C., Yao, Y., Wilson, C. C., Conchedda, G., Günther, D., Leip, A., Smith, P., Haussaire, J. M., Leppänen, A., Manning, A. J., McNorton, J., Brockmann, P., & Dolman, A. J. H. A. (2021). The consolidated European synthesis of CH4and N2O emissions for the European Union and United Kingdom: 1990-2017. *Earth System Science Data*, 13(5), 2307-2362. doi:10.5194/essd-13-2307-2021

Petrescu, A. M. R., McGrath, M. M., Andrew, R. R., Peylin, P., Peters, G. P., Ciais, P., Broquet, G., Tubiello, F. N., Gerbig, C., Pongratz, J., Janssens-Maenhout, G., Grassi, G., Nabuurs, G.-J., Regnier, P., Lauerwald, R., Kuhnert, M., Balkovi#, J., Schelhaas, M. J., van der Gon, H. D. H., Solazzo, E., Qiu, C., Pilli, R., Konovalov, I. I., Houghton, R., Günther, D., Perugini, L., Crippa, M., Ganzenmüller, R., Luijkx, I., Smith, P., Munassar, S., Thompson, R. L., Conchedda, G., Monteil, G., Scholze, M., Karstens, U., Brockmann, P., & Dolman, A. J. H. A. (2021). The consolidated European synthesis of CO2emissions and removals for the European Union and United Kingdom: 1990-2018. *Earth System Science Data*, 13(5), 2363-2406. doi:10.5194/essd-13-2363-2021

Payne, A. J., Nowicki, S., Abe-Ouchi, A., Agosta, C., Alexander, P., Albrecht, T., Asay# Davis, X., Aschwanden, A., Barthel, A., Bracegirdle, T. J., Calov, R., Chambers, C., Choi, Y., Cullather, R., Cuzzone, J., Dumas, C., Edwards, T. L., Felikson, D., Fettweis, X., Galton#Fenzi, B. K., Goelzer, H., Gladstone, R. R., Golledge, N. R., Gregory, J. M., Greve, R., Hattermann, T., Hoffman, M. J., Humbert, A., Huybrechts, P., Jourdain, N. C., Kleiner, T., Munneke, P. K., Larour, E., Le clec'h, S., Lee, V., Leguy, G., Lipscomb, W. H., Little, C. M., Lowry, D. P., Morlighem, M., Nias, I., Pattyn, F., Pelle, T., Price, S. F., Quiquet, A., Reese, R., Rückamp, M., Schlegel, N.-J., Seroussi, H., Shepherd, A., Simon, E., Slater, D., Smith, R. R., Straneo, F., Sun, S., Tarasov, L., Trusel, L. D., Van Breedam, J., van de Wal, R. S. W., Van den Broeke, M., Winkelmann, R., Zhao, C., Zhang, T., & Zwinger, T. (2021). Future sea level change under CMIP5 and CMIP6 scenarios from the Greenland and Antarctic ice sheets. *Geophysical research letters*. doi:10.1029/2020GL091741

Edwards, T. L., Nowicki, S., Marzeion, B., Hock, R., Goelzer, H., Seroussi, H., Jourdain, N. C., Slater, D. A., Turner, F., Smith, C. J., McKenna, C., Simon, E., Abe-Ouchi, A., Gregory, J. M., Larour, E., Lipscomb, W. H., Payne, A. J., Shepherd, A., Agosta, C., Alexander, P., Albrecht, T., Anderson, B., Asay-Davis, X., Aschwanden, A., Barthel, A., Bliss, A., Calov, R., Chambers, C., Champollion, N., Choi, Y., Cullather, R., Cuzzone, J., Dumas, C., Felikson, D., Fettweis, X., Fujita, K., Galton-Fenzi, B. K., Gladstone, R. R., Golledge, N. R., Greve, R., Hattermann, T., Hoffman, M. J., Humbert, A., Huss, M., Huybrechts, P., Immerzeel, W. W. (. W., Kleiner, T., Kraaijenbrink, P., Le clec'h, S., Lee, V., Leguy, G. R., Little, C. M., Lowry, D. P., Malles, J. H., Martin, D. F., Maussion, F., Morlighem, M., O'Neill, J. F., Nias, I., Pattyn, F., Pelle, T., Price, S. F., Quiquet, A., Radi#, V., Reese, R., Rounce, D. R., Rückamp, M., Sakai, A., Shafer, C., Schlegel, N.-J., Shannon, S., Smith, R. R., Straneo, F., Sun, S., Tarasov, L., Trusel, L. D., Van Breedam, J., van de Wal, R. S. W., Van den Broeke, M., Winkelmann, R., Zekollari, H., Zhao, C., Zhang, T., & Zwinger,

T. (2021). Projected land ice contributions to twenty-first-century sea level rise. *Nature (London)*, 593(7857), 74-82. doi:10.1038/s41586-021-03302-y

Berends, C. C., Goelzer, H., & van de Wal, R. S. W. (2021). The Utrecht Finite Volume Ice-Sheet Model: UFEMISM (version 1.0). *Geoscientific Model Development*, 14(5), 2443-2470. doi:10.5194/gmd-14-2443-2021

Perilleux, H., Retout, M., & Decroly, J.-M. (2021). La gentrification touristique par la conversion de logements en meublés loués sur les plateformes Airbnb et HomeAway. Une étude de cas à Bruxelles. *Bulletin - Société géographique de Liège*, 76.

Weikmans, R., & Gupta, A. (2021). Assessing state compliance with multilateral climate transparency requirements - 'Transparency Adherence Indices' and their research and policy implications. *Climate Policy*, 21(5), 635-651. doi:10.1080/14693062.2021.1895705

Deman, F., Fonseca-Batista, D., Roukaerts, A., García#Ibáñez, M. I., Le Roy, E., Thilakarathne, E. P. D. N., Elskens, M., Dehairs, F., & Fripiat, F. (2021). Nitrate Supply Routes and Impact of Internal Cycling in the North Atlantic Ocean Inferred From Nitrate Isotopic Composition. *Global biogeochemical cycles*, 35(4). doi:10.1029/2020GB006887

Nakhavali, M., Lauerwald, R., Regnier, P., Guenet, B., Chadburn, S., & Friedlingstein, P. (2021). Leaching of dissolved organic carbon from mineral soils plays a significant role in the terrestrial carbon balance. *Global change biology*, 27(5), 1083-1096. doi:10.1111/gcb.15460

Depicker, A., Jacobs, L., Mboga, N. O., Smets, B., Van Rompaey, A., Lennert, M., Wolff, E., Kervyn, F., Michellier, C., Dewitte, O., & Govers, G. (2021). Historical dynamics of landslide risk from population and forest-cover changes in the Kivu Rift. *Nature Sustainability*, 4(11), 965-974. doi:10.1038/s41893-021-00757-9

Georganos, S., Grippa, T., Niang Gadiaga, A., Linard, C., Lennert, M., Vanhuysse, S., Mboga, N. O., Wolff, E., & Kalogirou, S. (2021). Geographical random forests: a spatial extension of the random forest algorithm to address spatial heterogeneity in remote sensing and population modelling. *Geocarto international*, 36(2), 121-136. doi:doi.org/10.1080/101106049.2019.1595177

Muhindo Syavulisembo, A., Kervyn, F., Lennert, M., Wolff, E., & Michellier, C. (2021). Spatio-temporal location of population: Strengthening the capacities of sudden hazards risk management in Goma, DRC. *International journal of disaster risk reduction*, 66.

Christ, A. J., Bierman, P. R., Schaefer, J. M., Dahl-Jensen, D., Steffensen, J. P., Corbett, L. B., Peteet, D. M., Thomas, E. K., Steig, E. J., Rittenour, T. M., Tison, J.-L., Blard, P.-H., Perdrial, N., Dethier, D. P., Lini, A., Hidy, A. J., Caffee, M. W., & Southon, J. (2021). A multimillion-year-old record of Greenland vegetation and glacial history preserved in sediment beneath 1.4 km of ice at Camp Century. *Proceedings of the National Academy of Sciences of the United States of America*, 118(13), e2021442118. doi:10.1073/pnas.2021442118

Foucher, F., Hickman-Lewis, K., Hutzler, A., Joy, K. K., Folco, L., Bridges, J., Wozniakiewicz, P., Martínez-Frías, J., Debaille, V., Zolensky, M., Yano, H., Bost, N., Ferriere, L., Lee, M., Michalski, J., Schroeven-Deceuninck, H., Kminek, G., Viso,

M., Russell, S. S., Smith, C., Zipfel, J., & Westall, F. (2021). Definition and use of functional analogues in planetary exploration. *Planetary and space science*, 197, 105162. doi:10.1016/j.pss.2021.105162

Van Ginneken, M., Goderis, S., Artemieva, N., Debaille, V., Decrée, S., Harvey, R. R., Huwig, K. K., Hecht, L., Yang, S., Kaufmann, F. F., Soens, B., Humayun, M., Van Maldeghem, F., Genge, M. M., & Claeys, P. (2021). A large meteoritic event over Antarctica ca. 430 ka ago inferred from chondritic spherules from the Sør Rondane Mountains. *Science advances*, 7(14), eabc1008. doi:10.1126/sciadv.abc1008

Armeni, C. (2021). Narratives as Tools of Legal Re-Imagination in the Climate Crisis. *Journal of environmental law*, 33(2), 485-494. doi:10.1093/jel/eqab007

Lacroix, F., Ilyina, T., Laruelle, G. G., & Regnier, P. (2021). Reconstructing the Preindustrial Coastal Carbon Cycle Through a Global Ocean Circulation Model: Was the Global Continental Shelf Already Both Autotrophic and a CO 2 Sink? *Global biogeochemical cycles*, 35(2), e2020GB006603. doi:10.1029/2020GB006603

Ciais, P., Yao, Y., Gasser, T., Baccini, A., Wang, Y., Lauerwald, R., Peng, S., Bastos, A., Li, W., Raymond, P. A., Canadell, J. J., Peters, G. P., Andres, R. J., Chang, J., Yue, C., Dolman, A. J. H. A., Haverd, V., Hartmann, J., Laruelle, G. G., Konings, A., King, A. W., Liu, Y., Luyssaert, S., Maignan, F., Patra, P. K., Peregon, A., Regnier, P., Pongratz, J., Poulter, B., Shvidenko, A., Valentini, R., Wang, R., Broquet, G., Yin, Y., Zscheischler, J., Guenet, B., Goll, D., Ballantyne, A.-P., Yang, H., Qiu, C., & Zhu, D. (2021). Empirical estimates of regional carbon budgets imply reduced global soil heterotrophic respiration. *National Science Review*. doi:10.1093/nsr/nwaa145

Lambert, E., Le Bars, D., Goelzer, H., & van de Wal, R. S. W. (2021). Correlations Between Sea-Level Components Are Driven by Regional Climate Change. *Earth's future*, 9(2), e2020EF001825. doi:10.1029/2020EF001825

Goderis, S., Yesiltas, M., Pourkhorsandi, H., Shirai, N., Poudelet, M., Leitl, M., Yamaguchi, A., Debaille, V., & Claeys, P. (2021). Detailed record of the BELARE 2019-2020 meteorite recovery expedition on the Nansen Ice Field, East Antarctica. *Antarctic Record*, 65, 1-20. doi:10.15094/00016237

Roberts, T., Weikmans, R., Robinson, S.-A., Ciplet, D., Khan, M., & Falzon, D. (2021). Rebooting a failed promise of climate finance. *Nature climate change*, 11, 180-182. doi:10.1038/s41558-021-00990-2

Snoeck, C., Schulting, R., Brock, F., Rodler, A. A., Van Ham-meert, A., Mattielli, N., & Ostapkowicz, J. (2021). Testing Various Pre-treatments on Artificially Waterlogged and Pitch-Contaminated Wood for Strontium Isotope Analyses. *Frontiers in ecology and evolution*, 8, 589154. doi:10.3389/fevo.2020.589154

Hastie, A., Lauerwald, R., Ciais, P., Papa, F., & Regnier, P. (2021). Historical and future contributions of inland waters to the Congo Basin carbon balance. *Earth System Dynamics*, 12(1), 37-62. doi:10.5194/esd-12-37-2021

Van Hamme, G., Goeury, D., & Ben Rebah, M. (2021). Une analyse comparative des territorialités du vote au maroc et en tunisie: Trajectoires politiques et électorales. *Maghreb Machrek*, 243(1), 11-39. doi:10.3917/machr.243.0011

Gana, A., & Van Hamme, G. (2021). Introduction: Les bouleversements politiques en afrique du nord au prisme de l'analyse électorale. *Maghreb Machrek*, 243(1), 5-10. doi:10.3917/machr.243.0005

Pourkhorsandi, H., Debaille, V., Armytage, R. M., Van Ginneken, M., Rochette, P., & Gattacceca, J. (2021). The effects of terrestrial weathering on samarium#neodymium isotopic composition of ordinary chondrites. *Chemical geology*, 120056. doi:10.1016/j.chemgeo.2020.120056

Pourkhorsandi, H., Debaille, V., De Jong, J., & Armytage, R. M. (2021). Cerium stable isotope analysis of synthetic and terrestrial rock reference materials by MC-ICPMS. *Talanta*, 224, 121877. doi:10.1016/j.talanta.2020.121877

Dobruszkes, F., & Steck, B. (2021). Editorial: Visualising transport geography. *Journal of transport geography*, 92, 103015. doi:10.1016/j.jtrangeo.2021.103015

Dobruszkes, F. (2021). A global business? Mapping the densest passenger airline routes. *Journal of transport geography*, 92, 102941. doi:10.1016/j.jtrangeo.2020.102941

2020

Sigman, D. D., Fripiat, F., Studer, A. S., Kemeny, P. C., Martínez-García, A., Hain, M. M., Ai, X., Wang, X., Ren, H., & Haug, G. H. (2020). The Southern Ocean during the ice ages: A review of the Antarctic surface isolation hypothesis, with comparison to the North Pacific. *Quaternary science reviews*, 254, 106732. doi:10.1016/j.quascirev.2020.106732

Weikmans, R., Roberts, T., & Robinson, S.-A. (2020). What counts as climate finance? Define urgently. *Nature*, 588, 220. doi:10.1038/d41586-020-03481-0

Bassine, C., Radoux, J., Beaumont, B., Grippa, T., Lennert, M., Champagne, C., De Vroey, M., Martinet, A., Bouchez, O., Deffense, N., Hallot, E., Wolff, E., & Defourny, P. (2020). First 1-M Resolution Land Cover Map Labeling the Overlap in the 3rd Dimension: The 2018 Map for Wallonia. *Data*, 5(4), 117. doi:10.3390/data5040117

Van Hamme, G., & Gana, A. (2020). es bouleversements politiques en Afrique du Nord au prisme de l'analyse électorale . *Maghreb Machrek*., 1.

Decrée, S., Savolainen, M., Mercadier, J., Debaille, V., Höhn, S., Frimmel, H. H., & Baele, J.-M. (2020). Geochemical and spectroscopic investigation of apatite in the Siilinjärvi carbonatite complex: Keys to understanding apatite forming processes and assessing potential for rare earth elements. *Applied geochemistry*, 123, 104778. doi:10.1016/j.apgeochem.2020.104778

Ai, X., Studer, A. S., Sigman, D. M., Martínez-García, A., Fripiat, F., Thöle, L., Michel, E., Gottschalk, J., Arnold, L., Moretti, S., Schmitt, M., Oleynik, S., Jaccard, S. L., & Haug, G. H. (2020). Southern Ocean upwelling, Earth's obliquity, and glacial-interglacial atmospheric CO2 change. *Science*, 370(6522), 1348-1352. doi:10.1126/science.abd2115

Cassarino, L., Hendry, K. K., Henley, S. S., MacDonald, E., Arndt, S., Freitas, F. F., Pike, J., & Firing, Y. Y. (2020). Sedimentary Nutrient Supply in Productive Hot Spots off the West Antarctic Peninsula Revealed by Silicon Isotopes. *Global biogeochemical cycles*, 34(12), e2019GB006486. doi:10.1029/2019GB006486

Khan, M., Robinson, S.-A., Weikmans, R., Ciplet, D., & Roberts, T. (2020). Twenty-five years of adaptation finance through a climate justice lens. *Climatic change*, 161, 251-269. doi:10.1007/s10584-019-02563-x

Weikmans, R., & Roberts, T. (2020). Transparency requirements under the Paris Agreement and their (un)likely impact on strengthening the ambition of nationally determined contributions (NDCs). *Climate Policy*, 20(4), 511-526. doi:10.1080/14693062.2019.1695571

Hainbucher, D., Alvarez, M., Astray Uceda, B., Bachi, G., Cardin, V., Celentano, P., Chaikakis, S., Del Mar Chavez Montero, M., Civitarese, G., Fajar, N. N., Fripiat, F., Gerke, L., Gogou, A., Guallart, E. F., Gülk, B., El Rahaman Hassoun, A., Lange, N., Rochner, A., Santinelli, C., Steinhoff, T., Tanhua, T., Urbini, L., Velaoras, D., Wolf, F., & Welsch, A. (2020). Variability and Trends in Physical and Biogeochemical Parameters of the Mediterranean Sea during a Cruise with RV MARIA S. MERIAN in March 2018. *Earth System Science Data*, 12, https://doi.org/10.5194/essd-12-2747-2020.

Beunon, H., Chernonozhkin, S. S., Mattielli, N., Goderis, S., Doucet, L. S., Debaille, V., & Vanhaecke, F. (2020). Innovative two-step isolation of Ni prior to stable isotope ratio measurements by MC-ICP-MS: Application to igneous geological reference materials. *Journal of analytical atomic spectrometry*, 35(10), 2213-2223. doi:10.1039/d0ja00163e

Zhang, H., Lauerwald, R., Regnier, P., Ciais, P., Yuan, W., Naipal, V., Guenet, B., Van Oost, K., & Camino-Serrano, M. (2020). Simulating Erosion-Induced Soil and Carbon Delivery From Uplands to Rivers in a Global Land Surface Model. *Journal of Advances in Modeling Earth Systems*, 12(11), e2020MS002121. doi:10.1029/2020MS002121

Akame, J., Oliveira, E. P., Poujol, M., Hublet, G., & Debaille, V. (2020). LA–ICP–MS zircon U Pb dating, Lu Hf, Sm Nd geochronology and tectonic setting of the Mesoarchean mafic and felsic magmatic rocks in the Sangmelima granite-greenstone terrane, Ntem Complex (South Cameroon). *Lithos*, 372-373, 105702. doi:10.1016/j.lithos.2020.105702

Diekmann, A., Vincent, M., & Bauthier, I. (2020). The holiday practices of seniors and their implications for social tourism: A Wallonian perspective. *Annals of tourism research*, 85, 103096. doi:10.1016/j.annals.2020.103096

Lannuzel, D., Tedesco, L., Van Leeuwe, M. M., Karley, C., Flores, H., Delille, B., Miller, L. L., Stefels, J., Assmy, P., Bowman, J. S., Brown, K. A., Castellani, G., Chierici, M. M., Crabeck, O., Ellen, D., Else, B., Fransson, A. A., Fripiat, F., Geilfus, N. X., Jacques, C., Elisabeth, J., Kaartokallio, H., Meiners, K., Moreau, S., Nomura, D., Peeken, I., Rintala, J. M., Steiner, N., Tison, J.-L., Vancoppenolle, M., Van Der Linden, F., Marcello, V., & Wongpan, P. (2020). The future of Arctic sea-ice biogeochemistry and ice-associated ecosystems. *Nature climate change*. doi:10.1038/s41558-020-00940-4

Hodel, F., Triantafyllou, A., Berger, J., Macouin, M., Baele, J.-M., Mattielli, N., Monnier, C., Trindade, R. I. F., Ducea, M. M., Chatir, A., Ennih, N., Langlade, J., & Poujol, M. (2020).

The Moroccan Anti-Atlas ophiolites: Timing and melting processes in an intra-oceanic arc-back-arc environment. *Gondwana research*, 86, 182-202. doi:10.1016/j.gr.2020.05.014

Liu, D., Bertrand, S., Villaseñor, T., Van Dijck, T., Fagel, N., & Mattielli, N. (2020). Provenance of northwestern Patagonian river sediments (44–48°S): A critical evaluation of mineralogical, geochemical and isotopic tracers. *Sedimentary geology*, 408, 105744. doi:10.1016/j.sedgeo.2020.105744

Landschutzer, P., Laruelle, G. G., Roobaert, A., & Regnier, P. (2020). A uniform pCO2 climatology combining open and coastal oceans. *Earth System Science Data*, 12(4), 2537-2553. doi:10.5194/essd-12-2537-2020

Tian, H., Xu, R., Canadell, J. J., Thompson, R. L., Winiwarter, W., Suntharalingam, P., Davidson, E., Ciais, P., Jackson, R. B., Janssens-Maenhout, G., Prather, M., Regnier, P., Pan, N., Pan, S., Peters, G. P., Shi, H., Tubiello, F., Zaehle, S., Zhou, F., Arneth, A., Battaglia, G., Berthet, S., Bopp, L., Bouwman, A., Buitenhuis, E., Chang, J., Chipperfield, M., Dangal, S., Dlugokencky, E., Elkins, J., Eyre, B., Fu, B., Hall, B., Ito, A., Joos, F., Krummel, P., Landolfi, A., Laruelle, G. G., Lauerwald, R., Li, W., Lienert, S., Maavara, T., MacLeod, M., Millet, D. D., Olin, S., Patra, P. P., Prinn, R. G., Raymond, P. A., Ruiz, D. J., van der Werf, G. R., Vuichard, N., Wang, J., Weiss, R. F., Wells, K. C., Wilson, C. C., Yang, J., & Yao, Y. (2020). A comprehensive quantification of global nitrous oxide sources and sinks. *Nature (London)*, 586(7828), 248-256. doi:10.1038/s41586-020-2780-0

Lhermitte, S., Sun, S., Shuman, C., Wouters, B., Pattyn, F., Wuite, J., Berthier, E., & Nagler, T. (2020). Damage accelerates ice shelf instability and mass loss in Amundsen Sea Embayment. *Proceedings of the National Academy of Sciences of the United States of America*, 117(40), 24735-24741. doi:10.1073/pnas.1912890117

Glaude, Q., Amory, C., Berger, S., Derauw, D., Pattyn, F., Barbier, C., & Orban, A. (2020). Empirical Removal of Tides and Inverse Barometer Effect on DInSAR From Double DInSAR and a Regional Climate Model. *I E E E Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 13, 4085-4094. doi:10.1109/JSTARS.2020.3008497

Kausch, T., Lhermitte, S., Lenaerts, J. T. M., Wever, N., Inoue, M., Pattyn, F., Sun, S., Wauthy, S., Tison, J.-L., & van de Berg, W. J. (2020). Impact of coastal East Antarctic ice rises on surface mass balance: insights from observations and modeling. *The Cryosphere*, 14(10), 3367-3380. doi:10.5194/tc-14-3367-2020

Rückamp, M., Goelzer, H., & Humbert, A. (2020). Sensitivity of Greenland ice sheet projections to spatial resolution in higher-order simulations: The Alfred Wegener Institute (AWI) contribution to ISMIP6 Greenland using the Ice-sheet and Sea-level System Model (ISSM). *The Cryosphere*, 14(10), 3309-3327. doi:10.5194/tc-14-3309-2020

Bodin, Ö., Mancilla Garcia, M., & Robins, G. (2020). Reconciling Conflict and Cooperation in Environmental Governance: A Social Network Perspective. *Annual review of environment and resources*, 45(1), 471-495. doi:10.1146/annurev-environ-011020-064352

Freitas, F. F., Hendry, K. K., Henley, S. S., Faust, J. J., Tessin, A. A., Stevenson, M. A., Abbott, G. G., März, C., & Arndt, S. (2020). Benthic-pelagic coupling in the Barents Sea:

an integrated data-model framework. *Philosophical transactions. Series A, Mathematical, physical, and engineering sciences*, 378(2181), 20190359. doi:10.1098/rsta.2019.0359

LaRowe, D. E., Arndt, S., Bradley, J. J., Burwicz, E., Dale, A. W., & Amend, J. J. (2020). Organic carbon and microbial activity in marine sediments on a global scale throughout the Quaternary. *Geochimica et cosmochimica acta*, 286, 227-247. doi:10.1016/j.gca.2020.07.017

Mboga, N. O., Grippa, T., Georganos, S., Vanhuysse, S., Smets, B., Dewitte, O., Wolff, E., & Lennert, M. (2020). Fully convolutional networks for land cover classification from historical panchromatic aerial photographs. *ISPRS journal of photogrammetry and remote sensing*, 167, 385-395. doi:10.1016/j.isprsjprs.2020.07.005

Sun, S., Pattyn, F., Simon, E. G., Albrecht, T., Cornford, S. L., Calov, R., Dumas, C., Gillet-Chaulet, F., Goelzer, H., Golledge, N. R., Greve, R., Hoffman, M. J., Humbert, A., Kazmierczak, E., Kleiner, T., Leguy, G. R., Lipscomb, W. H., Martin, D., Morlighem, M., Nowicki, S., Pollard, D., Price, S., Quiquet, A., Seroussi, H., Schlemm, T., Sutter, J., van de Wal, R. S. W., Winkelmann, R., & Zhang, T. (2020). Antarctic ice sheet response to sudden and sustained ice-shelf collapse (ABUMIP). *Journal of Glaciology*, 1-14. doi:10.1017/jog.2020.67

Seroussi, H., Nowicki, S., Payne, A. J., Goelzer, H., Lipscomb, W. H., Abe-Ouchi, A., Agosta, C., Albrecht, T., Asay-Davis, X., Barthel, A., Calov, R., Cullather, R., Dumas, C., Galton-Fenzi, B. K., Gladstone, R. R., Golledge, N. R., Gregory, J. M., Greve, R., Hattermann, T., Hoffman, M. J., Humbert, A., Huybrechts, P., Jourdain, N. C., Kleiner, T., Larour, E., Leguy, G. R., Lowry, D. P., Little, C. M., Morlighem, M., Pattyn, F., Pelle, T., Price, S. F., Quiquet, A., Reese, R., Schlegel, N.-J., Shepherd, A., Simon, E., Smith, R. R., Straneo, F., Sun, S., Trusel, L. D., Van Breedam, J., van de Wal, R. S. W., Winkelmann, R., Zhao, C., Zhang, T., & Zwinger, T. (2020). ISMIP6 Antarctica: a multi-model ensemble of the Antarctic ice sheet evolution over the 21st century. *The Cryosphere*, 14(9), 3033-3070. doi:10.5194/tc-14-3033-2020

Lecocq, T., Hicks, S., Van Noten, K., van Wijk, K., Koelemeijer, P., De Plaen, R. S. M., Massin, F., Hillers, G., Anthony, R. E., Apoloner, M.-T., Arroyo-Solórzano, M., Assink, J., Büyükakp#nar, P., Cannata, A., Cannavo', F., Carrasco, S., Caudron, C., Chaves, E. J., Cornwell, D., Craig, D., den Ouden, O., Diaz, J., Donner, S., Evangelidis, C., Evers, L., Fauville, B., Fernandez, G. A., Giannopoulos, D., Gibbons, S. J., Girona, T., Grecu, B., Grunberg, M., Hetényi, G., Horleston, A., Inza, A., Irving, J. C. E., Jamalreyhani, M., Kafka, A., Koymans, M., Labedz, C., Larose, E. E., Lindsey, N., McKinnon, M., Megies, T., Miller, M. S., Minarik, W., Moresi, L., Márquez-Ramírez, V., Möllhoff, M., Nesbitt, I., Niyogi, S., Ojeda, J., Oth, A., Proud, S., Pulli, J., Retailleau, L., Rintamäki, A., Satriano, C., Savage, M. K., Shani-Kadmiel, S., Sleeman, R., Sokos, E., Stammler, K., Stott, A. E., Subedi, S., Sørensen, M. B., Taira, T., Tapia, M., Turhan, F., van der Pluijm, B., Vanstone, M., Vergne, J., Vuorinen, T., Warren, T., Wassermann, J., & Xiao, H. (2020). Global quieting of high-frequency seismic noise due to COVID-19 pandemic lockdown measures. *Science*, 369(6509), 1338-1343. doi:10.1126/science.abd2438

Zeller, V., Lavigne, C., D'Ans, P., Towa Kouokam, E. B., & Achten, W. (2020). Assessing the environmental performance for more local and more circular biowaste management options at city-region level. *Science of the total environment*, 745, 140690. doi:10.1016/j.scitotenv.2020.140690

Goelzer, H., Nowicki, S., Payne, A., Larour, E., Seroussi, H., Lipscomb, W. H., Gregory, J., Abe-Ouchi, A., Shepherd, A., Simon, E., Agosta, C., Alexander, P., Aschwanden, A., Barthel, A., Calov, R., Chambers, C., Choi, Y., Cuzzone, J., Dumas, C., Edwards, T. L., Felikson, D., Fettweis, X., Golledge, N. R., Greve, R., Humbert, A., Huybrechts, P., Le clec'h, S., Lee, V., Leguy, G., Little, C., Lowry, D. P., Morlighem, M., Nias, I., Quiquet, A., Rückamp, M., Schlegel, N.-J., Slater, D. A., Smith, R. R., Straneo, F., Tarasov, L., van de Wal, R. S. W., & Van den Broeke, M. (2020). The future sea-level contribution of the Greenland ice sheet: a multi-model ensemble study of ISMIP6. *The Cryosphere*, 14(9), 3071-3096. doi:10.5194/tc-14-3071-2020

Chevallier, T., Loireau, M., Courault, R., chapuis-lardy, L., Desjardins, T., Gomez, C., Grondin, A., Guérin, F., Orange, D., Pélissier, R., Serpantié, G., Durand, M. H., Derioz, P., Laruelle, G. G., Schwoob, M. H., Viovy, N., Barrière, O., Blanchart, E., Blanfort, V., Brossard, M., Demenois, J., Fargette, M., Heulin, T., Mahe, G., Manlay, R., Podwojewski, P., Rumpel, C., Sultan, B., & Chotte, J. L. (2020). Paris climate agreement: Promoting interdisciplinary science and stakeholders' approaches for multi-scale implementation of continental carbon sequestration. *Sustainability*, 12(17), 6715. doi:10.3390/SU12176715

Pel, B., Haxeltine, A., Avelino, F., Dumitru, A., Kemp, R., Bauler, T., Kunze, I., Dorland, J., Wittmayer, J. M., & Jørgensen, M. S. (2020). Towards a theory of transformative social innovation:: A relational framework and 12 propositions. *Research policy*, 49(8), 104080. doi:10.1016/j.respol.2020.104080

Sauzéat, L., Costas-Rodríguez, M., Albalat, E., Mattielli, N., Vanhaecke, F., & Balter, V. (2020). Inter-comparison of stable iron, copper and zinc isotopic compositions in six reference materials of biological origin. *Talanta*, 221, 121576. doi:10.1016/j.talanta.2020.121576

Tierz, P., Clarke, B., Calder, E. S., Dessalegn, F., Lewi, E., Yirgu, G., Fontijn, K., Crummy, J. M., Bekele, Y., & Loughlin, S. (2020). Event trees and epistemic uncertainty in long#term volcanic hazard assessment of rift volcanoes: the example of Aluto (Central Ethiopia). *Geochemistry, geophysics, geosystems*, 21, e2020GC009219. doi:10.1029/2020GC009219

Doucet, L. S., Laurent, O., Ionov, D. D., Mattielli, N., Debaille, V., & Debouge, W. (2020). Archean Lithospheric differentiation: Insights from Fe and Zn isotopes. *Geology*., https://doi.org/10.1130/G47647.1.

Lauerwald, R., Regnier, P., Guenet, B., Friedlingstein, P., & Ciais, P. (2020). How Simulations of the Land Carbon Sink Are Biased by Ignoring Fluvial Carbon Transfers: A Case Study for the Amazon Basin. *One earth*, 3(2), 226-236. doi:10.1016/j.oneear.2020.07.009

Dunmire, D., Lenaerts, J. T. M., Banwell, A. F., Wever, N., Shragge, J. C. J., Lhermitte, S., Drews, R., Pattyn, F., Hansen, J. S. S., Willis, I. C., Miller, J., & Keenan, E. (2020). Observations of Buried Lake Drainage on the Antarctic Ice Sheet. *Geophysical research letters*, 47(15). doi:10.1029/2020GL087970

Akame, J., Owona, S., Hublet, G., & Debaille, V. (2020). Archean tectonics in the sangmelima granite-greenstone terrains, Ntem Complex (NW Congo craton),

southern Cameroon. *Journal of African earth sciences*, 168, 103872. doi:10.1016/j.jafrearsci.2020.103872

Zurbriggen, C., González Lago, M., Mancilla Garcia, M., & Gatica, S. (2020). Laboratorios de Transformación para un Futuro Sostenible. *Cuadernos del Centro de Estudios de Diseño y Comunicación*,(83). doi:10.18682/cdc.vi83.3734

Bradley, J. J., Arndt, S., Amend, J. J., Burwicz, E., Dale, A. W., Egger, M., & LaRowe, D. E. (2020). Widespread energy limitation to life in global subseafloor sediments. *Science advances*, 6(32), eaba0697. doi:10.1126/sciadv.aba0697

Bulthuis, K., Pattyn, F., & Arnst, M. (2020). A Multifidelity Quantile-Based Approach for Confidence Sets of Random Excursion Sets with Application to Ice-Sheet Dynamics. *SIAM/ASA Journal on Uncertainty Quantification*, 8(3), 860-890. doi:10.1137/19M1280466

Saunois, M., Stavert, A., Poulter, B., Bousquet, P. P., Canadell, J. J., Jackson, R. B., Raymond, P. A., Dlugokencky, E., Houweling, S., Patra, P. P., Ciais, P., Arora, V. V., Bastviken, D., Bergamaschi, P., Blake, D. R., Brailsford, G., Bruhwiler, L., Carlson, K., Carrol, M., Castaldi, S., Chandra, N., Crevoisier, C., Crill, P., Covey, K., Curry, C., Etiope, G., Frankenberg, C., Gedney, N., Hegglin, M., Höglund-Isaksson, L., Hugelius, G., Ishizawa, M., Ito, A., Janssens-Maenhout, G., Jensen, K. M., Joos, F., Kleinen, T., Krummel, P., Langenfelds, R., Laruelle, G. G., Liu, L., Machida, T., Maksyutov, S., McDonald, K., McNorton, J., Miller, P. A., Melton, J., Morino, I., Müller, J., Murguia-Flores, F., Naik, V., Niwa, Y., Noce, S., O'Doherty, S., Parker, R. J., Peng, C., Peng, S., Peters, G. P., Prigent, C., Prinn, R., Ramonet, M., Regnier, P., Riley, W., Rosentreter, J., Segers, A., Simpson, I., Shi, H., Smith, S. J., Steele, P., Thornton, B. F., Tian, H., Tohjima, Y., Tubiello, F., Tsuruta, A., Viovy, N., Voulgarakis, A., Weber, T. S., Van Weele, M., van der Werf, G. R., Weiss, R. F., Worthy, D., Wunch, D., Yin, Y., Yoshida, Y., Zhang, W., Zhang, Z., Zhao, Y., Zheng, B., Zhu, Q., Zhu, Q., & Zhuang, Q. (2020). The Global Methane Budget 2000–2017. *Earth System Science Data*, 12(3), 1561-1623. doi:10.5194/essd-12-1561-2020

Krämer Ruggiu, L., Gattacceca, J., Devouard, B., Udry, A., Debaille, V., Rochette, P., Lorand, J.-P., Bonal, L., Beck, P., Sautter, V. H., Busemann, H., Meier, M. M., Maden, C., Hublet, G., & Martinez, R. (2020). Caleta el Cobre 022 Martian meteorite: Increasing nakhlite diversity. *Meteoritics & planetary science*. doi:10.1111/maps.13534

Höhn, S., Frimmel, H. H., Debaille, V., & Price, W. (2020). Pre-Klondikean oxidation prepared the ground for Broken Hill-type mineralization in South Africa. *TERRA nova*. doi:10.1111/ter.12502

Soens, B., Suttle, M. M., Maeda, R., Vanhaecke, F., Yamaguchi, A., Van Ginneken, M., Debaille, V., Claeys, P., & Goderis, S. (2020). Evidence for the presence of chondrule- and CAI-derived material in an isotopically anomalous Antarctic micrometeorite. *Meteoritics & planetary science*. doi:10.1111/maps.13599

Nowicki, S., Goelzer, H., Seroussi, H., Payne, A., Lipscomb, W. W., Abe-Ouchi, A., Agosta, C., Alexander, P., Asay-Davis, X., Barthel, A., Bracegirdle, T. T., Cullather, R., Felikson, D., Fettweis, X., Gregory, J., Hattermann, T., Jourdain, N. N., Kuipers Munneke, P., Larour, E., Little, C. C., Morlighem, M., Nias, I., Shepherd, A., Simon, E., Slater, D. D., Smith, R. R., Straneo, F., Trusel, L. D., Van Den Broeke, M., & van de Wal, R. S. W.

(2020). Experimental protocol for sea level projections from ISMIP6 stand-alone ice sheet models. *The Cryosphere*, 14(7), 2331-2368. doi:10.5194/tc-14-2331-2020

Jacques, C., Gkritzalis, T., Tison, J.-L., Hartley, T., Van der Veen, C., Röckmann, T., Middelburg, J., Cattrijsse, A., Egger, M., Dehairs, F., & Sapart, C. (2020). Carbon and Hydrogen Isotope Signatures of Dissolved Methane in the Scheldt Estuary. *Estuaries and Coasts*., https://doi.org/10.1007/s12237-020-00768-3.

Doucet, L. S., Li, Z.-X., El Dien, H. G., Pourteau, A., Murphy, J. B., Collins, W. J., Mattielli, N., Olierook, H. K. H., Spencer, C. J., & Mitchell, R. N. (2020). Distinct formation history for deep-mantle domains reflected in geochemical differences. *Nature Geoscience*., https://doi.org/10.1038/s41561-020-0599-9.

Vanderstraeten, A., Bonneville, S., Gili, S., De Jong, J., Debouge, W., Claeys, P., & Mattielli, N. (2020). First Multi-Isotopic (Pb-Nd-Sr-Zn-Cu-Fe) Characterisation of Dust Reference Materials (ATD and BCR-723): A Multi-Column Chromatographic Method Optimised to Trace Mineral and Anthropogenic Dust Sources. *Geostandards and geoanalytical research*, 44(2), 307-329. doi:10.1111/ggr.12320

Beunon, H., Mattielli, N., Doucet, L. S., Moine, B., & Debret, B. (2020). Mantle heterogeneity through Zn systematics in oceanic basalts: Evidence for a deep carbon cycling. *Earth-science reviews*., 103174. doi:10.1016/j.earscirev.2020.103174

Puglini, M., Brovkin, V. V., Brovkin, V. V., & Regnier, P. (2020). Assessing the potential for non-turbulent methane escape from the East Siberian Arctic Shelf. *Biogeosciences*, 17(12), 3247-3275. doi:10.5194/bg-17-3247-2020

Lohest, F., Bauler, T., Sureau, S., Van Mol, J., & Achten, W. (2020). Vers une complémentarité des alternatives alimentaires : relocalisation des activités et écologisation des pratiques au sein de trois alternatives de distribution à Bruxelles. *Développement durable & territoires*.

Van Hamme, G. (2020). Services avancés : attractivité bruxelloise et enjeux locaux . *Brussels studies*. doi:10.4000/brussels.5102

Van Der Linden, F., Tison, J.-L., Champenois, W., Moreau, S., Carnat, G., Kotovitch, M., Fripiat, F., Deman, F., Roukaerts, A., Dehairs, F., Wauthy, S., Lourenço, A., Vivier, F., Haskell, T., & Delille, B. (2020). Sea Ice CO2 Dynamics Across Seasons: Impact of Processes at the Interfaces. *Journal of geophysical research. Oceans*, 125(6). doi:10.1029/2019JC015807

Tison, J.-L., Maksym, T., Fraser, A. D., Corkill, M., Kimura, N., Nosaka, Y., Nomura, D., Vancoppenolle, M., Ackley, S., Stammerjohn, S., Wauthy, S., Van Der Linden, F., Carnat, G., Sapart, C., De Jong, J., Fripiat, F., & Delille, B. (2020). Physical and biological properties of early winter Antarctic sea ice in the Ross Sea. *Annals of glaciology*, 1-19. doi:10.1017/aog.2020.43

Flinders, A., Caudron, C., Johanson, I., Taira, T., Shiro, B., & Haney, M. (2020). Seismic velocity variations associated with the 2018 lower East Rift Zone eruption of K#lauea, Hawai#i. *Bulletin of volcanology*, 82(6). doi:10.1007/s00445-020-01380-w

Goelzer, H., Noël, B. B., Edwards, T., Fettweis, X., Gregory, J., Lipscomb, W. W., van de Wal, R. S. W., & Van den Broeke, M. (2020). Remapping of Greenland ice sheet surface mass balance anomalies for large ensemble sea-level change projections. *The Cryosphere*, 14(6), 1747-1762. doi:10.5194/tc-14-1747-2020

Robinson, A., Alvarez-Solas, J., Montoya, M., Goelzer, H., Greve, R., & Ritz, C. (2020). Description and validation of the ice-sheet model Yelmo (version 1.0). *Geoscientific Model Development*, 13(6), 2805-2823. doi:10.5194/gmd-13-2805-2020

Hertz, T., Mancilla Garcia, M., & Schluter, M. (2020). From nouns to verbs: How process ontologies enhance our understanding of social#ecological systems understood as complex adaptive systems. *People and Nature*, 2(2), 328-338. doi:10.1002/pan3.10079

Wittek, B., Carnat, G., Delille, B., Tison, J.-L., & Gypens, N. (2020). Dimethylsulfoniopropionate (DMSP) and dimethylsulfoxide (DMSO) cell quotas variations arising from sea ice shifts of salinity and temperature in the Prymnesiophyceae Phaeocystis antarctica. *Environmental chemistry*. doi:10.1071/EN19302

Michellier, C., Kervyn, M., Barette, F., Muhindo Syavulisembo, A., Kimanuka, C., Kulimushi Mataboro, S., Hage, F., Wolff, E., & Kervyn, F. (2020). Evaluating population vulnerability to volcanic risk in a data scarcity context: The case of Goma city, Virunga volcanic province (DRCongo). *International journal of disaster risk reduction*, 45, 101460. doi:10.1016/j.ijdrr.2019.101460

Romero Arias, J., Bonneville, S., & Roisin, Y. (2020). Crop-gizzard content and volume variations among afrotropical Apicotermitinae (Blattodea, Termitidae). *Insectes sociaux*, 67(2), 261-271. doi:10.1007/s00040-020-00760-x

LaRowe, D. E., Arndt, S., Bradley, J. J., Estes, E. R., Hoarfrost, A., Lang, S. S., Lloyd, K. K., Mahmoudi, N., Orsi, W. W., Shah Walter, S. S., Steen, A. A., & Zhao, R. (2020). The fate of organic carbon in marine sediments - New insights from recent data and analysis. *Earth-science reviews*, 204, 103146. doi:10.1016/j.earscirev.2020.103146

Russell, J., Barker, P. A., Cohen, A. S., Ivory, S. J., Kimirei, I. A., Lane, C. S., Leng, M. J., Maganza, N., McGlue, M. M., Msaky, E. S., Noren, A. J., Boush, L. P., Salzburger, W., Scholz, C. A., Tiedemann, R., Nuru, S., Albrecht, C., Ali, R., Arrowsmith, R. J., Asanga, D., Asmerom, Y., Bakundukize, C., Bauersachs, T., Beck, C. C., Berke, M. A., Beverley, E., Blaauw, M., Brown, E. T., Campisano, C. J., Carrapa, B., Castaûeda, I., Dee, S. G., Deino, A. L., Ebinger, C. J., Ellis, G. S., Foerster, V. E., Fontijn, K., Gehrels, G. E., Indemaur, A., Jovanovska, E., Junginger, A., Kaboth, S., Kallmeyer, J., King, J. W., Konecky, B. L., Mark, D. F., McIntyre, P. B., Michel, E., Mkuu, D., Morgan, L., Mtetela, C., Muderwha, N., Muirhead, J. D., Mumbi, C. T., Muschick, M., Nahimana, D., Ngowi, V., Njiko, P., Nkenyeli, S., Nkotagu, H. H., Ntakimazi, G., Oppo, D., Purkamo, L., Rick, J. A., Roberts, H. M., Ronco, F., Sangweni, C., Shaghude, Y. W., Shigela, J., Shillington, D. J., Sophia, C. S., Sier, M. J., Soreghan, M. J., Spanbauer, T. L., Spencer-Jones, C. L., Staff, R. A., Stone, J. R., Todd, J. A., Trauth, M. H., Van Bocxlaer, B., Viehberg, F. A., Vogel, H., Vonhof, H., Wolff, C., Wu, Q., Yost, C. L., & Zeeden, C. (2020). ICDP workshop on the Lake Tanganyika Scientific Drilling Project: A late Miocene-present record of climate, rifting, and ecosystem evolution from the world's oldest tropical lake. *Scientific drilling*, 27, 53-60. doi:10.5194/sd-27-53-2020

Ding, T., Bourrelly, S., & Achten, W. (2020). Operationalising territorial life cycle inventory through the development of territorial emission factor for European agricultural land use. *Journal of cleaner production*.

Nomura, D., Wongpan, P., Toyota, T., Tanikawa, T., Kawaguchi, Y., Ono, T., Ishino, T., Tozawa, M., Tamura, T. P., Yabe, I. S., Son, E. Y., Vivier, F., Lourenço, A., Lebrun, M., Nosaka, Y., Hirawake, T., Ooki, A., Aoki, S., Else, B., Fripiat, F., Inoue, J., & Vancoppenolle, M. (2020). Saroma-ko Lagoon observations for sea ice physico-chemistry and ecosystems 2019 (SLOPE2019). *Bulletin of glaciological research*, 38, 1-12.

Paridaens, N., Salesse, K., Müller, R., Klein, S., Snoeck, C., & Mattielli, N. (2020). Les balles de fronde en plomb découvertes sur l'oppidum de Thuin : caractérisation, origine et interprétation. *Signa (Bruxelles)*, 9, 111-123.

Snoeck, C., Jones, C., Pouncett, J., Goderis, S., Claeys, P., Mattielli, N., Zazzo, A., Reimer, P., Lee-Thorp, J., & Schulting, R. (2020). Isotopic evidence for changing mobility and landscape use patterns between the Neolithic and Early Bronze Age in western Ireland. *Journal of Archaeological Science: Reports*, 30, 102214. doi:10.1016/j.jasrep.2020.102214

Snoeck, C., Ryan, S. S., Pouncett, J., Pellegrini, M., Claeys, P., Wainwright, A., Mattielli, N., Lee-Thorp, J., & Schulting, R. (2020). Towards a biologically available strontium isotope baseline for Ireland. *Science of the total environment*, 712, 136248. doi:10.1016/j.scitotenv.2019.136248

Triantafyllou, A., Berger, J., Baele, J.-M., Mattielli, N., Ducea, M. M., Sterckx, S., Samson, S., Hodel, F., & Ennih, N. (2020). Episodic magmatism during the growth of a Neoproterozoic oceanic arc (Anti-Atlas, Morocco). *Precambrian research*, 339, 105610. doi:10.1016/j.precamres.2020.105610

Drews, R., Schannwell, C., Ehlers, T. A., Gladstone, R., Pattyn, F., & Matsuoka, K. (2020). Atmospheric and oceanographic signatures in the ice#shelf channel morphology of Roi Baudouin Ice Shelf, East Antarctica, inferred from radar data. *Journal of Geophysical Research: Earth Surface*. doi:10.1029/2020JF005587

Hubbard, B., Philippe, M., Pattyn, F., Drews, R., Young, T. J., Bruyninx, C., Bergeot, N., Fjosne, K., & Tison, J.-L. (2020). High-resolution distributed vertical strain and velocity from repeat borehole logging by optical televiewer: Derwael Ice Rise, Antarctica. *Journal of Glaciology*, 1-7. doi:10.1017/jog.2020.18

Gillmann, C., Golabek, G. G., Raymond, S. S., Schönbächler, M., Tackley, P., Dehant, V., & Debaille, V. (2020). Dry late accretion inferred from Venus's coupled atmosphere and internal evolution. *Nature Geoscience*, 13(4), 265-269. doi:10.1038/s41561-020-0561-x

Caudron, C., De Batist, M., Jouve, G., Matte, G., Hermans, T., Flores-Orozco, A., Versteeg, W., Ghazoui, Z., Roux, P., Vandemeulebrouck, J., & Schmidt, B. (2020). Messages in the Bubbles. *Eos*, 101. doi:10.1029/2020EO143499

Armeni, C., & Anker, H. T. (2020). Public participation and appeal rights in decision-making on wind energy infrastructure: a comparative analysis of the Danish and English

legal framework. *Journal of environmental planning and management*, 63(5), 842-861. doi:10.1080/09640568.2019.1614436

Mancilla Garcia, M., Hertz, T., & Schluter, M. (2020). Towards a Process Epistemology for the Analysis of Social-Ecological System. *Environmental values*, 29(2), 221-239. doi:10.3197/096327119X15579936382608

Albayrak, M. B. K., Ozcan, I. Ç., Can, R., & Dobruszkes, F. (2020). The Determinants of Air Passenger Traffic at Turkish Airports. *Journal of air transport management*, 86, 101818.

Bianchi, T. S., Arndt, S., Austin, W. E. W., Benn, D. D., Bertrand, S., Cui, X., Faust, J. J., Koziorowska-Makuch, K., Moy, C. C., Savage, C., Smeaton, C., Smith, R. R., & Syvitski, J. (2020). Fjords as Aquatic Critical Zones (ACZs). *Earth-science reviews*, 203, 103145. doi:10.1016/j.earscirev.2020.103145

Wittek, B., Carnat, G., Tison, J.-L., & Gypens, N. (2020). Response of dimethylsulfoniopropionate (DMSP) and dimethylsulfoxide (DMSO) cell quotas to salinity and temperature shifts in the sea-ice diatom Fragilariopsis cylindrus. *Polar biology*. doi:10.1007/s00300-020-02651-0

Cui, X., Chen, W., Sigrist, M. W., Fertein, E., Flament, P., De Bondt, K., & Mattielli, N. (2020). Analysis of the Stable Isotope Ratios (18O/16O, 17O/16O, and D/H) in Glacier Water by Laser Spectrometry. *Analytical chemistry*, 92(6), 4512-4517. doi:10.1021/acs.analchem.9b05679

Li, C., Sonke, J., Le Roux, G., Van der Putten, N., Piotrowska, N., Jeandel, C., Mattielli, N., Benoit, M., Wiggs, G., & De Vleeschouwer, F. (2020). Holocene dynamics of the southern westerly winds over the Indian Ocean inferred from a peat dust deposition record. *Quaternary science reviews*, 231, 106169. doi:10.1016/j.quascirev.2020.106169

López-Costas, O., Kylander, M., Mattielli, N., Álvarez-Fernández, N., Pérez-Rodríguez, M., Mighall, T., Bindler, R., & Martínez Cortizas, A. (2020). Human bones tell the story of atmospheric mercury and lead exposure at the edge of Roman World. *Science of the total environment*, 710, 136319. doi:10.1016/j.scitotenv.2019.136319

Pattyn, F., & Morlighem, M. (2020). The uncertain future of the Antarctic Ice Sheet. *Science*, 367(6484), 1331-1335. doi:10.1126/science.aaz5487

Goelzer, H., Coulon, V., Pattyn, F., de Boer, B., & van de Wal, R. S. W. (2020). Brief communication: On calculating the sea-level contribution in marine ice-sheet models. *The Cryosphere*, 14(3), 833-840. doi:10.5194/tc-14-833-2020

Poppe, S., Galland, O., de Winter, N. N., Goderis, S., Claeys, P., Debaille, V., Boulvais, P., & Kervyn, M. (2020). Structural and Geochemical Interactions Between Magma and Sedimentary Host Rock: The Hovedøya Case, Oslo Rift, Norway. *Geochemistry, geophysics, geosystems*, 21(3), e2019GC008685. doi:10.1029/2019GC008685

Moreau, H., de Jamblinne de Meux, L., Zeller, V., D'Ans, P., Ruwet, C., & Achten, W. (2020). Dockless E-Scooter: A Green Solution for Mobility? Comparative Case

Study between Dockless E-Scooters, Displaced Transport, and Personal E-Scooters. *Sustainability*, 12(5), 1803. doi:10.3390/su12051803

Slater, D. A., Felikson, D., Straneo, F., Goelzer, H., Little, C. M., Morlighem, M., Fettweis, X., & Nowicki, S. (2020). Twenty-first century ocean forcing of the Greenland ice sheet for modelling of sea level contribution. *The Cryosphere*, 14(3), 985-1008. doi:10.5194/tc-14-985-2020

Barthel, A., Agosta, C., Little, C. C., Hattermann, T., Jourdain, N. N., Goelzer, H., Nowicki, S., Seroussi, H., Straneo, F., & Bracegirdle, T. T. (2020). CMIP5 model selection for ISMIP6 ice sheet model forcing: Greenland and Antarctica. *The Cryosphere*, 14(3), 855-879. doi:10.5194/tc-14-855-2020

Bowring, S., Lauerwald, R., Guenet, B., Zhu, D., Guimberteau, M., Regnier, P., Tootchi, A., Ducharne, A., & Ciais, P. (2020). ORCHIDEE MICT-LEAK (r5459), a global model for the production, transport, and transformation of dissolved organic carbon from Arctic permafrost regions - Part 2: Model evaluation over the Lena River basin. *Geoscientific Model Development*, 13(2), 507-520. doi:10.5194/gmd-13-507-2020

Levermann, A., Winkelmann, R., Albrecht, T., Goelzer, H., Golledge, N. R., Greve, R., Huybrechts, P., Jordan, J., Leguy, G., Martin, D. D., Morlighem, M., Pattyn, F., Pollard, D., Quiquet, A., Rodehacke, C., Seroussi, H., Sutter, J., Zhang, T., Van Breedam, J., Calov, R., Deconto, R., Dumas, C., Garbe, J., Hilmar Gudmundsson, G., Hoffman, M. M., Humbert, A., Kleiner, T., Lipscomb, W. W., Meinshausen, M., Ng, E., Nowicki, S., Perego, M., Price, S. S., Saito, F., Schlegel, N., Sun, S., & van de Wal, R. S. W. (2020). Projecting Antarctica's contribution to future sea level rise from basal ice shelf melt using linear response functions of 16 ice sheet models (LARMIP-2). *Earth System Dynamics*, 11(1), 35-76. doi:10.5194/esd-11-35-2020

Hanna, E., Pattyn, F., Navarro, F., Favier, V., Goelzer, H., van den Broeke, M. R., Vizcaino, M., Whitehouse, P. L., Ritz, C., Bulthuis, K., & Smith, B. (2020). Mass balance of the ice sheets and glaciers – Progress since AR5 and challenges. *Earth-science reviews*, 201, 102976. doi:10.1016/j.earscirev.2019.102976

Goderis, S., Soens, B., Huber, M. M., McKibbin, S., Van Ginneken, M., Van Maldeghem, F., Debaille, V., Greenwood, R. R., Franchi, I. I., Cnudde, V., Van Malderen, S., Vanhaecke, F., Koeberl, C., Topa, D., & Claeys, P. (2020). Cosmic spherules from Widerøefjellet, Sør Rondane Mountains (East Antarctica). *Geochimica et cosmochimica acta*, 270, 112-143. doi:10.1016/j.gca.2019.11.016

Debret, B., Reekie, J., Mattielli, N., Beunon, H., Ménez, B., Savov, I., & Williams, H. (2020). Redox transfer at subduction zones: insights from Fe isotopes in the Mariana forearc. *Geochemical Perspectives Letters*, 12, 10.7185/geochemlet.2003, 46-51.

Bonneville, S., Delpomdor, F., Préat, A., Chevalier, C., Araki, T., Kazemian Abyaneh, M., Steele, A., Schreiber, A., Wirth, R. R., & Benning, L. G. (2020). Molecular identification of fungi microfossils in a Neoproterozoic shale rock. *Science advances*, 6(4), eaax7599. doi:10.1126/sciadv.aax7599

Salih, N. N., Mansurbeg, H., & Préat, A. (2020). Geochemical and dynamic model of repeated hydrothermal injections in two mesozoic successions, provençal domain, maritime alps, se-France. *Minerals*, 10(9), 775, 1-24. doi:10.3390/min10090775

Zhang, H., Elskens, M., Chen, G., Snoeck, C., & Chou, L. (2020). Influence of seawater ions on phosphate adsorption at the surface of hydrous ferric oxide (HFO). *Science of the total environment*. doi:10.1016/j.scitotenv.2020.137826

Clerbois, S., Mattielli, N., Triantafyllou, A., & Brkojewitsch, G. (2020). The Roman granite quarries in the Tyrrhenian Sea during the imperial period : a technological study. *Marmora*, 16, 64-98.

Ackley, S. S., Stammerjohn, S. S., Maksym, T., Smith, M., Cassano, J. J. J., Guest, P., Tison, J.-L., Delille, B., Loose, B., Sedwick, P., Depace, L., Roach, L., & Parno, J. (2020). Sea-ice production and air/ice/ocean/biogeochemistry interactions in the Ross Sea during the PIPERS 2017 autumn field campaign. *Annals of glaciology*. doi:10.1017/aog.2020.31

Jolly, A. A., Caudron, C., Girona, T., Christenson, B., & Carniel, R. (2020). ‘Silent'dome emplacement into a wet volcano: observations from an effusive eruption at White Island (Whakaari), New Zealand in late 2012. *Géosciences*, 10(4), 142.

Perttu, A., Caudron, C., Assink, J., Metz, D., Tailpied, D., Perttu, B., Hibert, C., Nurfiani, D., Pilger, C., Muzli, M., & others, (2020). Reconstruction of the 2018 tsunamigenic flank collapse and eruptive activity at Anak Krakatau based on eyewitness reports, seismo-acoustic and satellite observations. *Earth and planetary science letters*, 541, 116268.

Métaxian, J.-P., Santoso, A. B., Caudron, C., Cholik, N., Labonne, C., Poiata, N., Beauducel, F., Monteiller, V., Fahmi, A. A., Rizal, M. H., & others, (2020). Migration of seismic activity associated with phreatic eruption at Merapi volcano, Indonesia. *Journal of volcanology and geothermal research*, 396, 106795.

Caudron, C., Chardot, L., Girona, T., Aoki, Y., & Fournier, N. (2020). Towards Improved Forecasting of Volcanic Eruptions. *Frontiers in Earth Science*, 8, 45.

Papangelou, A., Achten, W., & Mathijs, E. (2020). Phosphorus and energy flows through the food system of Brussels Capital Region. *Resources, conservation and recycling*, 156, 104687.

Towa Kouokam, E. B., Zeller, V., & Achten, W. (2020). Input-output models and waste management analysis: A critical review. *Journal of cleaner production*., 119359. doi:10.1016/j.jclepro.2019.119359

Mancilla Garcia, M., Hertz, T., Schluter, M., Preiser, R., & Woermann, M. (2020). Adopting process-relational perspectives to tackle the challenges of social-ecological systems research. *Ecology and Society*, 25(1). doi:10.5751/ES-11425-250129

Dobruszkes, F., & Efthymiou, M. (2020). When environmental indicators are not neutral: Assessing aircraft noise assessment in Europe. *Journal of air transport management*, 88, 101861. doi:10.1016/j.jairtraman.2020.101861

Charlier, J., & Dobruszkes, F. (2020). Between external forces and internal factors: The geography of domestic airline services in South Africa. *Journal of transport geography*, 87, 102795. doi:10.1016/j.jtrangeo.2020.102795

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*.

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