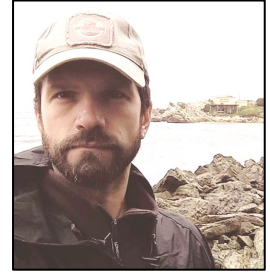


Edoardo Dallanave, PhD

PERSONAL INFORMATION

Name and last name Edoardo Dallanave
Work address Department of Earth Sciences "Ardito Desio"
University of Milan (Italy)
Via Mangiagalli 34, 20133 Milan (IT)
Phone (office) +39 02 503 15508
E-mail (work) edoardo.dallanave@unimi.it
Webpage <https://edoardodallanave.wixsite.com/mysite>
Place and date of birth Milan (Italy), 25 November 1976



MAIN RESEARCH INTERESTS

I am an Earth scientist specialized in paleomagnetism and rock-magnetism. I am interested in chronology, paleogeographic reconstructions, paleoceanography, and magnetic properties of rocks. My interest in paleogeography has been largely addressed to the southwest Pacific area (Zealandia continent) as well as the Alpine Tethys area during the Meso-Cenozoic, as tested by several publications and funded proposals for a total of ~1M€. Among the different topics, I am currently working on the stratigraphic records recovered during IODP Exp. 371 and IODP Exp. 392, on which I sailed as on-board Paleomagnetist, as well as on a R-based web platform to facilitate analyses of paleomagnetic data from exposed rocks and deep-sea sediments. Within the IODP frame, I am part of an international working group conducting research on past climate examples that, with the current CO₂ emission rates, are the best analogous in the geological past of the possible near future of our planet.

ACADEMIC EXPERIENCE

- Since June 2024** Researcher (Assistant Professor) at the Department of Earth Sciences "Ardito Desio" of the University of Milan (Italy).
- Oct. 2018–May 2024** Principal Investigator (Research Associate) at the Faculty of Geosciences (FB5) of the University of Bremen (Germany); Guest Scientist from Feb. to Aug. 2021 and from Dec. 2023.
- March 2012–March 2018** Principal Investigator (Research Associate) at the Department of Earth and Environmental Sciences of the Ludwig Maximilians University (München, Germany).
- March 2010–Feb. 2012** Postdoctoral Research Fellow at the Geosciences Department of the University of Padova (Italy).
- Jan. 2007– Dec. 2009** Ph.D. student at the Geosciences Department of the University of Padova (Italy).

AWARDED RESEARCH FUNDS

- Research Grant IODP-Italy 2025**
9,947 €
Principal Investigator
Astronomical tuning of the Late Cretaceous geomagnetic polarity time scale (from top Chron C34n to base Chron C30n)
Co-proponent: Dr. T. Westerhold (MARUM – University of Bremen, Germany).
- DA1757/3-1**
Sept. 2021–Dec. 2023
Grant: 221,000 €
Principal Investigator
Dissecting the Jurassic monster polar shift: Paleomagnetic analyses of Middle–Late Jurassic sedimentary rocks from Ethiopia.
Fully funded by the Deutsche Forschungsgemeinschaft (DFG) for 24 months at the University of Bremen (Germany).
- DA1757/2-1**
Oct. 2018–Dec. 2020
Grant: 192,000 €
Principal Investigator
Exploring the coupling between plate tectonic and climate evolution: Eocene–Oligocene chronology of the southwest Pacific.
Fully funded by the Deutsche Forschungsgemeinschaft (DFG) for 24 months at the University of Bremen (Germany).
- DA1757/1-1**
March 2015–Feb. 2018
Grant: 274,000 €
Principal Investigator
Early Cenozoic climate and tectonic evolution of the southwest Pacific Ocean.
Fully funded by the Deutsche Forschungsgemeinschaft (DFG) for 36 months at the LMU München (Germany).

BA1210/19-1, -2 **Main proponent and executor**
March 2012–Feb. 2015 *Magnetostratigraphy and rock-magnetism of the Mead Stream section, New Zealand: a tool to investigate the temporal and spatial evolution of a Late Cretaceous–early Eocene southern Pacific continental margin.*
Total Grant: 289,000 €
 Fully funded by the Deutsche Forschungsgemeinschaft (DFG) for 36 (24+12) months at the LMU München (Germany).

EDUCATION & DEGREES

November 2020 Italian Habilitation for Associate Professor in Stratigraphic Geology.

March 2010 Ph.D. in Earth Science.
Awarding institution: University of Padova (Italy).

October 2004 Degree in Earth Science.
Awarding institution: University of Milan (Italy).

BOARDS & COMMITTEES MEMBERSHIP

Editorial Board membership Associated Editor of *New Zealand Journal of Geology and Geophysics* (Wiley Publishing Co.)

MG³–SSC Since 4th April 2025, Member of the **Magellan³ Science Steering Committee** of the International Ocean Drilling Program (IODP³)

CBEP12 (August 2022) Member of the Scientific Committee of the Climate and Biotic Events of the Paleogene 12; Co-organizer and Chair of the meeting **Theme 4: “Tectonics, Surface Environments and Hydrological Processes”**, consisting of two sessions:
 4.1- Source-to-sink sedimentation during warm intervals of the Paleogene
 4.2- Impact of paleogeography on our understanding of Paleogene Climate
<https://www.marum.de/Forschung/Climatic-and-Biotic-Events-of-the-Paleogene-2020.html>

STRATI2019 (July 2019) Convener and co-chair of the General session on Stratigraphy (ST11.4)

INTERNATIONAL OCEAN DISCOVERY PROGRAM (IODP)

IODP Exp. 392 (Feb. 5–Apr. 7 2022) Onboard Paleomagnetist during **IODP Exp. 392** “Agulhas Plateau Cretaceous Climate” on the vessel JOIDES Resolution.
https://iodp.tamu.edu/scienceops/expeditions/agulhas_plateau_climate.html

IODP Exp. 371 (July 26–Sept. 27 2017) Onboard Paleomagnetist during **IODP Exp. 371** “Tasman Frontier Subduction Initiation and Paleogene Climate” on the vessel JOIDES Resolution.
https://iodp.tamu.edu/scienceops/expeditions/tasman_frontier_subduction_climate.html

OUTREACH & TEACHING

Alongside my research activities, I view teaching and outreach as essential pillars of my academic journey. I am committed to fostering curiosity, critical thinking, and a passion for discovery by engaging with students at the BSc, MSc, and PhD levels through lectures, seminars, and mentorship.

University of Milan (Italy) **Sedimentary Succession and Their Natural Resources for the Energy Transition**
 Frontal lectures (16h), Environmental Change and Global Sustainability (ECGS) Master Program, Summer Semester.

Geological Environment and Structures: Stratigraphic geology module
 Frontal lectures (16h), Geophysics master Program, winter semester.

Paleomagnetism and Paleogeography: From the geomagnetic polarity time scale to paleogeographic reconstructions
 Frontal lectures (15h), 17–19 December 2024 in the frame of the doctorate school program of the Earth Science Department.

University of Bremen (Germany) **MARUM - ECORD Training Course & Summer School**
 Paleomagnetism Module
 ➤ 2023, 4-15 September
 ➤ 2023, 13-17 March
 ➤ 2019, 25-29 March

Applied Geophysics: Methods

15h of frontal lectures at the Faculty of Geosciences. Winter semester 2020.

Marine environmental archive project

3h weekly lectures, summer semester 2019, Faculty of Geosciences.

Supervisor of several Data Analysis projects as part of the MSc program.

University of Padova (Italy, INVITED) **Paleomagnetism: from the geologic time scale to paleogeographic reconstructions**

Short course for the graduate program in Geology, 10h of frontal lectures, 14–18 November 2022, Department of Geosciences.

Ludwig Maximilians University (Munich, Germany) **Paleomagnetism: application to magnetostratigraphy and paleogeography.**

2h weekly lectures, summer semester 2016, the Department of Earth and Environmental Sciences.

FIELDWORK

Fieldwork has been a cornerstone of my scientific career. I have led and participated in numerous field campaigns focused on geological mapping, stratigraphic section logging, and sampling, often conducted in challenging and remote environments. Below, I highlight the most significant campaigns, with associated publications listed in the Publications section.

Ethiopia (2022) Preliminary 15-days campaign near Dejen to perform description, logging, and sampling for magneto-biostratigraphy of Upper Jurassic sections exposed in the Blue Nile valley.

New Caledonia (2014–2018) Three campaigns around the main island, for a total of 6 weeks, to perform logging and description of sedimentary sections, and sampling for paleomagnetic and biostratigraphic studies.

New Zealand (2012–2020) Five campaigns, for a total of ~10 weeks, in different parts of both the North and the South Islands, to perform mapping, logging, description, and sampling of Cenozoic sedimentary sections.

Venetian Southern Alps (2007–2018) Several campaigns, related also to my doctorate work, in order to perform logging, description, and sampling for magneto-biostratigraphy of several sedimentary sections cropping out in the Piave River valley (Belluno).

Northern Alps Field campaign, in high mountain environment, to log and sample Jurassic and Cretaceous sedimentary rocks belonging to the Briançonnais paleogeographic domain (Alpine Tethys).

PUBLICATIONS

The link to each publication can be found here: <https://edoardodallanave.wixsite.com/mysite>.

- 2026** • Boscolo-Galazzo, F., Taylor, V.E., Galaasen, E. V., Liebrand, D., Gasson, E., **Dallanave, E.**, Fernandez-bremer, A., Witkowski, J., Bohaty, S.M. (2026). Oligocene deep ocean oxygen isotope variations primarily driven by temperature. *Nat Geosci.* <https://doi.org/10.1038/s41561-025-01878-y>
- 2025** • Bukar, S., Von Dobeneck, T., Wang, Y., Max, L., Frederichs, T., **Dallanave, E.**, & St-Onge, G. (2025). Ice-Rafted Detritus of the Southeast Grand Banks Slope, Newfoundland, Throughout Heinrich Layers 1 to 5a: 2. Magnetic Properties. *Geochemistry Geophysics Geosystems*, 26(e2024GC011931), 1–26. <https://doi.org/10.1029/2024GC011931>.

- Griffith, E.M., Westerhold, T., Hönisch, B., Sager, W.W., Zachos, J., Penman, D., Babila, T.L., Batenburg, S.J., Borrelli, C., Boscolo-Galazzo, F., Dai, Y., **Dallanave, E.**, Chin, S.C., Harper, D.T., Haynes, S.J., Huber, B.T., Hupp, B.N., Konrad, K., Lam, A.R., Lowery, C.M., MacLeod, K.G., Mitchell, N., Polissar, P.J., Saad, B., Sibert, E.C., Taylor, V.E., Villa, A., Brassell, S.C., Dameron, S., Doiron, K.E., Farmer, J., Kuroda, J., Lyle, M., Ravelo, A.C., Sepúlveda, J., Sun, C., Nana-Yobo, L., Walczak, M.H., Wang, Y., Zhang, Y. (2025). Pacific Highs: A Treasure Trove of Past Warm Climate Archives. *Paleoceanography and Paleoclimatology* 40, e2025PA005133. <https://doi.org/10.1029/2025PA005133>.
 - Peñalver-Clavel, I., Batenburg, S. J., Sutherland, R., **Dallanave, E.**, Dickens, G. R., Westerhold, T., & Alegret, L. (2025). Intensified bottom water formation in the southwest Pacific during the early Eocene greenhouse — Insights from neodymium isotopes. *Geology, in press*, <https://doi.org/10.1130/G52974.1>
 - Westerhold, T., **Dallanave, E.**, Penman, D., Schoene, B., Röhl, U., Gussone, N., Kuroda, J., 2025. Earth orbital rhythms links timing of Deccan trap volcanism phases and global climate change. *Science Advance*, 11(eadr8584), 1–11. <https://doi.org/10.1126/sciadv.adr8584>
 - Muttoni, G., **Dallanave, E.**, Della Porta, G., 2025. European arid anomaly explained with southward drift of Eurasia during the Late Jurassic polar shift. *Geochemistry, Geophysics, Geosystems*, 26, e2024GC011730, 1–14. <https://doi.org/10.1029/2024GC011730>
- 2024**
- **Dallanave, E.**, 2024. Assessing the reliability of paleomagnetic datasets using the R package PmagDiR. *Scientific Reports* 14:1666, <https://www.nature.com/articles/s41598-024-52001-x>.
 - Viganò, A., **Dallanave, E.**, Alegret, L., Westerhold, T., Sutherland, R., Dickens, G. R., Newsam, C., & Agnini, C., 2024. Calcareous Nannofossils and Paleoclimatic Evolution Across the Eocene-Oligocene Transition at IODP Site U1509, Tasman Sea, Southwest Pacific Ocean. *Paleoceanography and Paleoclimatology*, 39(2), doi: 10.1029/2023pa004738.
 - Viganò, A., **Dallanave, E.**, Alegret, L., Westerhold, T., Sutherland, R., Dickens, G.R., Newsam, C., Agnini, C., 2024. Calcareous nannofossil biostratigraphy and biochronology across the Eocene-Oligocene transition: the record at IODP Site U1509 (Tasman Sea) and a global overview. *Newsletters Stratigr.* 57, 1–23, doi: 0.1127/nos/2023/0751.
 - Peñalver-Claver, I., Agnini, C., Westerhold, T., Cramwinckel, M.J., **Dallanave, E.**, Bhattacharya, J., Sutherland, R., Alegret, L., 2024. Integrated record of the late Lutetian thermal maximum at IODP site U1508, Tasman Sea: The deep-sea response. *Marine Micropaleontology* 191, 102390, doi: 10.1016/j.marmicro.2024.102390.
- 2023**
- Uenzelmann-Neben, G., Bohaty, S.M., Childress, L.B., Archontikis, O.A., Batenburg, S.J., Bijl, P.K., Burkett, A.M., Chanda, P., Coenen, J.J., **Dallanave, E.**, Davidson, P.C., Doiron, K.E., Geldmacher, J., Gürer, D., Haynes, S., Herrle, J.O., Ichiyama, Y., Jana, D., Jones, M., Kato, C., Kulhanek, D.K., Li, J., Liu, J., McManus, J., Minakov, A.N., Penman, D.E., Sprain, C.J., Tessin, A.C., Wagner, T., Westerhold, T., 2023. Agulhas Plateau Cretaceous Climate, Proceedings of the International Ocean Discovery Program. International Ocean Discovery Program, College Station, Texas, USA. <https://doi.org/10.14379/iodp.proc.392.2023>
 - Gastaldello, M.E., Agnini, C., Westerhold, T., Drury, A.J., Sutherland, R., Drake, M.K., Lam, A.R., **Dallanave, E.**, Burns, S., Alegret, L., 2023. The Late Miocene-Early Pliocene Biogenic Bloom: An integrated study in the Tasman Sea. *Paleoceanography and Paleoclimatology* 38, e2022PA004565, doi: 10.1029/2022PA004565.
 - Kirscher, U., **Dallanave, E.**, Bachtadse, V., 2023. Paleoposition and Paleogeography of Egypt During the Phanerozoic Era, in: Hamimi, Z., Khozyem, H., Adatte, T., Nader, F.H., Oboh-Ikuenobe, F., Zobaa, M.K., El-Afty, H. (Eds.), *The Phanerozoic Geology and Natural Resources of Egypt*. Springer, p. 874. ISBN: 978-3-030-95636-3.
- 2022**
- **Dallanave, E.**, Sutherland, R., Dickens, G.R., Chang, L., Tema, E., Alegret, L., Agnini, C., Westerhold, T., Newsam, C., Lam, A.R., Stratford, W.R., Collot, J., Etienne, S.J.G., Von Dobeneck, T., 2022. Absolute Paleolatitude of Northern Zealandia from the Middle Eocene to the Early Miocene. *Journal of Geophysical Research: Solid Earth* 127, 1–19, doi: 10.1029/2022JB024736.
 - Uenzelmann-Neben, G., Bohaty, S.M., Childress, L.B., Archontikis, O.A., Batenburg, S.J., Bijl, P.K., Burkett, A.M., Chanda, P., Coenen, J.J., **Dallanave, E.**, Davidson, P.C., Doiron, K.E., Geldmacher, J., Gürer, D., Haynes, S., Herrle, J.O., Ichiyama, Y., Jana, D., Jones, M., Kato, C., Kulhanek, D.K., Li, J., Liu, J., McManus, J., Minakov, A.N., Penman, D.E., Sprain, C.J., Tessin, A.C., Wagner, T., Westerhold, T., 2022. Agulhas Plateau Cretaceous Climate: drilling the Agulhas Plateau and Transkei Basin to reconstruct the Cretaceous–Paleogene tectonic and climatic evolution of the Southern Ocean basin. *Int. Ocean Discov. Progr. Prelim. Reports* 392, 1–56, doi: 10.14379/iodp.pr.392.2022.

- Stratford, W.R., Sutherland, R., Dickens, G.R., Blum, P., Collot, J., Gurnis, M., Saito, S., Bordenave, A., Etienne, S.J.G., Agnini, C., Alegret, L., Asatryan, G., Bhattacharya, J., Chang, L., Cramwinckel, M.J., **Dallanave, E.**, Drake, M.K., Giorgioni, M., Harper, D.T., Huang, H.-H.M., Keller, A.L., Lam, A.R., Li, H., Matsui, H., Morgans, H.E.G., Newsam, C., Park, Y.-H., Pascher, K.M., Pekar, S.F., Penman, D.E., Westerhold, T., Zhou, X., 2022. Timing of Eocene compressional plate failure during subduction initiation, northern Zealandia, southwestern Pacific. *Geophysical Journal International* 229, 1567–1585, doi: 10.1093/gji/ggac016.
- Sutherland, R., Dos Santos, Z., Agnini, C., Alegret, L., Lam, A.R., Westerhold, T., Drake, M., Harper, D.T., **Dallanave, E.**, Newsam, C., Cramwinckel, M.J., Dickens, G.R., Collot, J., Etienne, S.J.G., Bordenave, A., Stratford, W.R., Zhou, X., Li, H., Asatryan, G., 2022. Neogene mass accumulation rate of carbonate sediment across northern Zealandia, Tasman Sea, southwest Pacific. *Paleoceanography and Paleoclimatology* 37, e2021PA004294, doi: 10.1029/2021PA004294.
- 2021** • Kirscher, U., Atfy, H. El, Gärtner, A., **Dallanave, E.**, Munz, P., Niedźwiedzki, G., Athanassiou, A., Fassoulas, C., Linnemann, U., Hofmann, M., Bennett, M., Ahlberg, P.E., Böhme, M., 2021. Age constraints for the Trachilos footprints from Crete. *Sci. Rep.* 11, 1–9, doi: 10.1038/s41598-021-98618-0
- Kirscher, U., **Dallanave, E.**, Weissbrodt, V., Stojakowits, P., Grau, M., Bachtadse, V., Mayr, C., 2021. The Laschamps geomagnetic excursion recorded in continental sediments from southern Germany. *Geophysical Journal International* 227, 1354–1365, doi: 10.1093/gji/ggab276.
- Alegret, L., Harper D.T., Agnini, C., Newsam, C., Westerhold, T., Cramwinckel, M.J., **Dallanave, E.**, Dickens, G.R., Sutherland, R., 2021. Biotic response to early Eocene warming events: Integrated record from offshore Zealandia, north Tasman Sea. *Paleoceanography and Paleoclimatology* 36, e2020PA004179, 1–23, doi: 10.1029/2020PA004179.
- 2020** • **Dallanave, E.**, Kirscher, U., 2020. Testing the reliability of sedimentary paleomagnetic dataset for paleogeographic reconstructions. *Frontiers in Earth Sciences, Section Geomagnetism and Paleomagnetism*, 8:592277, 1–16, doi: 10.3389/feart.2020.592277.
- **Dallanave, E.**, Maurizot, P., Agnini, C., Sutherland, R., Hollis, C.J., Collot, J., Dickens, G.R., Bachtadse, V., Strogen, D.P., Morgans, H.E.G., 2020. Eocene (46–44 Ma) onset of Australia-Pacific plate motion in the southwest Pacific inferred from stratigraphy in New Caledonia and New Zealand. *Geochemistry Geophys. Geosystems* 21(7), doi: 10.1029/2019GC008699.
- **Dallanave, E.**, Chang, L., 2020. Early Eocene to early Miocene magnetostratigraphic framework for IODP Expedition 371 (Tasman Frontier Subduction Initiation and Paleogene Climate). *Newsletter on Stratigraphy* 53(4), 365–387, doi: 10.1127/nos/2019/0556.
- Kirscher, U., Gevorgyan, H., Meliksentsian, K., Navasardyan, G., **Dallanave, E.**, Breikreuz, C., Bachtadse, V., 2020. Quaternary ignimbrites of western Armenia - Paleomagnetic and anisotropy constraints on flow direction and stratigraphy. *Journal of volcanology and geothermal research* 402, 1–16, doi: 10.1016/j.jvolgeores.2020.106982.
- Sutherland, R., Dickens, G.R., Blum, P., Agnini, C., Alegret, L., Asatryan, G., Bhattacharya, J., Bordenave, A., Chang, L., Collot, J., Cramwinckel, M.J., **Dallanave, E.**, Drake, M.K., Etienne, S.J.G., Giorgioni, M., Gurnis, M., Harper, D.T., Huang, H.-H.M., Keller, A.L., Lam, A.R., Li, H., Matsui, H., Morgans, H.E.G., Newsam, C., Park, Y.-H., Pascher, K.M., Pekar, S.F., Penman, D.E., Saito, S., Stratford, W.R., Westerhold, T., Zhou, X., 2020. Continental scale of geographic change across Zealandia during Paleogene subduction zone initiation. *Geology* 48, doi: 10.1130/G47008.1.
- Crouch, E.M., Morgans, H.E.G., Shepherd, C.L., Naafs, B.D.A., **Dallanave, E.**, Phillips, A., Hollis, C.J., Pancost, R.D., 2020. Climatic and environmental changes across the Early Eocene Climatic Optimum at mid-Waipara River, Canterbury Basin, New Zealand. *Earth Sciences Reviews* 200, 1–20, doi: 10.1016/j.earscirev.2019.102961.
- Luciani, V., Fornaciari, E., Papazzoni, C., **Dallanave, E.**, Giusberti, L., Stefani, C., Amante, E., 2020. Integrated stratigraphy at the Bartonian–Priabonian transition: correlation between shallow benthic and calcareous plankton zones (Varignano section, northern Italy). *Geological Society of America Bulletin* 132, 495–520, doi: 10.1130/B35169.1.
- 2019** • Rivero Cuesta, L., Westerhold, T., Agnini, C., **Dallanave, E.**, Wilkens, R.H., Alegret, L., 2019. Paleoenvironmental changes at ODP Site 702 (South Atlantic): anatomy of the Middle Eocene Climatic Optimum. *Paleoceanogr. Paleoclimatology* 34, 1–20, doi: 10.1029/2019PA003806.
- Sutherland, R., Dickens, G.R., Blum, P., Agnini, C., Alegret, L., Bhattacharya, J., Bordenave, A., Chang, L., Collot, J., Cramwinckel, M.J., **Dallanave, E.**, Drake, M.K., Etienne, S.J.G., Giorgioni, M., Gurnis, M., Harper, D.T., Huang, H.-H.M., Keller, A.L., Lam, A.R., Li, H., Matsui, H., Morgans, H.E.G., Newsam, C., Park, Y.-H.,

- Pascher, K.M., Pekar, S.F., Penman, D.E., Saito, S., Stratford, W.R., Westerhold, T., Zhou, X., 2019. Tasman Frontier Subduction Initiation and Paleogene Climate, Proceedings of the Integrated Ocean Drilling Program Volume 371. International Ocean Discovery Program, College Station, Texas, USA, doi: 10.14379/iodp.proc.371.2019.
- 2018**
- **Dallanave, E.**, Kirscher, U., Hauck, J., Hesse, R., Bachtadse, V., Wortmann, U.G., 2018. Paleomagnetic time and space constraints of the Early Cretaceous Rhenodanubian Flyschzone (Eastern Alps). *Geophysical Journal International* 213, 1804–1817, doi: 10.1093/gji/ggy077.
 - **Dallanave, E.**, Agnini, C., Pascher, K.M., Maurizot, P., Bachtadse, V., Hollis, C.J., Dickens, G.R., Collot, J., Monesi, E., 2018. Magneto-biostratigraphic constraints of the Eocene micrite-calciturbidite transition in New Caledonia: tectonic implications. *New Zealand Journal of Geology and Geophysics* 61(2), 145–163, doi: 10.1080/00288306.2018.1443946.
 - Sutherland, R., Dickens, G.R., Blum, P., Agnini, C., Alegret, L., Bhattacharya, J., Bordenave, A., Chang, L., Collot, J., Cramwinckel, M.J., **Dallanave, E.**, Drake, M.K., Etienne, S.J.G., Giorgioni, M., Gurnis, M., Harper, D.T., Huang, H.-H.M., Keller, A.L., Lam, A.R., Li, H., Matsui, H., Morgans, H.E.G., Newsam, C., Park, Y.-H., Pascher, K.M., Pekar, S.F., Penman, D.E., Saito, S., Stratford, W.R., Westerhold, T., Zhou, X., 2018. Expedition 371 Preliminary Report: Tasman Frontier Subduction Initiation and Paleogene Climate. International Ocean Discovery Program, doi: 10.14379/iodp.pr.371.2018.
- 2017**
- Di Genova, D., Kolzenburg, S., Wiesmaier, S., **Dallanave, E.**, Neuville, D., Hess, K.U., Dingwell, D., 2017. A subtle chemical tipping point governing mobilization and eruption style of rhyolitic magma. *Nature* 552, 235–238, doi: 10.1038/nature24488.
- 2016**
- **Dallanave, E.**, Bachtadse, V., Crouch, E.M., Tauxe, L., Shepherd, L., Morgans, H.E.G., Hollis, C.J., Hines, B.R., Sugisaki, S., 2016. Constraining early to middle Eocene climate evolution of the southwest Pacific and Southern Ocean. *Earth and Planetary Sciences Letters* 433, 380–392, doi: 10.1016/j.epsl.2015.11.010.
 - D’Onofrio, R., Luciani, V., Fornaciari, E., Giusberti, L., Boscolo Galazzo, F., **Dallanave, E.**, Westerhold, T., Sprovieri, M., Telch, S., 2016. Environmental perturbation at the early Eocene ETM2, H2, and I1 events as inferred by Tethyan calcareous plankton (Terche section, northeastern Italy). *Paleoceanography* 31, 1225–1247, doi: 10.1002/2016PA002940.
 - Agnini, C., Spofforth, D.J.A., Dickens, G.R., Rio, D., Pálke, H., Backman, J., Muttoni, G., **Dallanave, E.**, 2016. Stable isotope and calcareous nannofossil assemblage records for the Cicogna section: toward a detailed template of the late Paleocene and early Eocene global carbon cycle and nannoplankton evolution. *Climate of the Past* 11, 4329–4389, doi: 10.5194/cpd-11-4329-2015.
 - Nalin, R., Ghinassi, M., Foresi, L.M., **Dallanave, E.**, 2016. Carbonate deposition in restricted basins: a Pliocene case study from the central Mediterranean (northwestern Apennines). *Journal of Sedimentary Research* 86, 236–367, doi: 10.2110/jsr.2016.14.
- 2015**
- **Dallanave, E.**, Agnini, C., Bachtadse, V., Muttoni, G., Crampton, J.S., Strong, C.P., Hines, B.R., Hollis, C.J., Slotnick, B.S., 2015. Early to middle Eocene magneto-bichronology of the southwest Pacific Ocean and climate influence on sedimentation: Insights from the Mead Stream section, New Zealand. *Geological Society of America Bulletin* 127(5/6), 643–660, doi: 10.1130/B31147.1.
 - Bianchi, V., Salles, T., Ghinassi, M., Billi, P., **Dallanave, E.**, Duclaux, G., 2015. Numerical modeling of tectonically driven river dynamics and deposition in an upland incised valley. *Geomorphology* 241, 353–370, doi: 10.1016/j.geomorph.2015.04.007.
 - Muttoni, G., Tartarotti, P., Chiari, M., Marieni, C., Rodelli, D., **Dallanave, E.**, Kirsher, U., 2015. Paleolatitude of Late Triassic radiolarian cherts from Argolis, Greece: Insights on the paleogeography of the western Tethys. *Palaeogeography, Palaeoclimatology, Palaeoecology* 417, 476–490, doi: 10.1016/j.palaeo.2014.10.010.
- 2014**
- **Dallanave, E.**, Bachtadse, V., Agnini, C., Muttoni, G., Hollis, C.J., Hines, B.R., Morgans, H.E.G., Strong, C.P., Tauxe, L., Crampton, J.S., 2014. Early-middle Eocene magneto-biochronology of the Southern Pacific Ocean: new data from the South Island of New Zealand. *Rend. Online Soc. Geol. It.* 31, 50–51, doi: 10.3301/ROL.2014.40.
- 2013**
- Muttoni, G., **Dallanave, E.**, Channell, J.E.T., 2013. The drift history of Adria and Africa from 280 Ma to present, Jurassic true polar wander, and zonal climate control on Tethyan sedimentary facies. *Palaeogeography, Palaeoclimatology, Palaeoecology* 386, 415–435, doi: 10.1016/j.palaeo.2013.06.011.

- 2012** • **Dallanave, E.**, Agnini, C., Muttoni, G., Tauxe, L., Rio, D., 2012. Is there a normal magnetic polarity event during the Paleocene–Eocene thermal maximum (~55 Ma)? Insight from the paleomagnetic record of the Belluno Basin (Italy). *Geophysical Journal International* 191(2), 517–519, doi: 10.1111/j.1365-246X.2012.05627.x.
- **Dallanave, E.**, Agnini, C., Muttoni, G., Rio, D., 2012. Paleocene magneto-biostratigraphy and climate-controlled rock magnetism from the Belluno Basin, Tethys Ocean, Italy. *Palaeogeography, Palaeoclimatology, Palaeoecology* 337–338, 130–142, doi: 10.1016/j.palaeo.2012.04.007.
- 2010** • **Dallanave, E.**, Tauxe, L., Muttoni, G., Rio, D., 2010. The silicate weathering machine at work: Rock-magnetic data from the Cicogna section (NE Italy). *Geochemistry, Geophysics, Geosystems* 11(7), Q07008, doi: 10.1029/2010GC003142.
- **Dallanave, E.**, Muttoni, G., 2010. Il segreto del clima è nelle rocce (The secret of the climate is in the rocks). *Darwin* 37, 40–45 (not peer reviewed).
- 2009** • **Dallanave, E.**, Agnini, C., Muttoni, G., Rio, D., 2009. Magneto-biostratigraphy of the Cicogna section (Italy): implications for the late Paleocene–early Eocene time scale. *Earth and Planetary Science Letters* 285, 39–51, doi: 10.1016/j.epsl.2009.05.033.
- 2008** • Agnini C., **Dallanave E.**, Fornaciari E., Giusberti L., Grandesso P., Rio D., Stefani C., Backman J., Capraro L., Lanci L., Luciani V., Muttoni G., Palike H., Spofforth D. & Tateo F., 2008. Il Paleogene inferiore in facies pelagica del Veneto nord-orientale (The early Paleogene pelagic sediments of the NE Veneto Region). *Rendiconti online Soc. Geol. It.* 4, 5–12.

CONFERENCE ABSTRACTS (first Author only)

- **Dallanave E.**, Toward a complete web-based Tool-box for paleomagnetic and Magnetostratigraphic data analysis and display. AGU24, 9–13 December 2024, Washington DC (USA).
- **Dallanave E.**, et alii. Middle Eocene to the early Miocene northward migration of northern Zealandia determined from the sedimentary record of IODP Exp. 371 (Tasman Sea). EGU General Assembly 2023, 23–28 April 2023, Vienna (Austria).
- **Dallanave E.**, et alii. Middle Eocene to early Miocene absolute paleolatitude of northern Zealandia determined from the sedimentary record of IODP Exp. 371 (Tasman Sea). IODP/ICDP Colloquium 2022, Potsdam (Germany).
- **Dallanave E.**, et alii. Absolute Paleolatitude of Northern Zealandia from the Middle Eocene to the Early Miocene: Implications for the southwest Pacific Ocean Paleogeography. CBEP12, 2022, Bremen (Germany).
- **Dallanave E.**, et alii. Middle Eocene to Early Miocene absolute paleolatitude of northern Zealandia. Magnetic Interaction 2022, online conference.
- **Dallanave E.**, et alii. Middle Eocene onset of Australia-Pacific plate motion in the southwest Pacific inferred from stratigraphy in New Caledonia and New Zealand. IAGA-IASPEI 2021, online conference.
- **Dallanave E.**, et alii. Magnetostratigraphic framework for IODP Expedition 371 (Tasman Frontier Subduction Initiation and Paleogene Climate). STRATI 2019, Milan (Italy).
- **Dallanave E.**, et alii. Timing of the Eocene plate motion change in the southwest Pacific: the Magnetostratigraphic record of New Caledonia and New Zealand. EGU Meeting 2019, Vienna (Austria).
- **Dallanave E.**, et alii. Magnetostratigraphic framework for IODP Expedition 371 (Tasman Frontier Subduction Initiation and Paleogene Climate): preliminary results. IODP/ICDP Kolloquium 2019, Köln (Germany).
- **Dallanave E.**, et alii. IODP Expedition 371: Tasman Frontier Subduction Initiation and Paleogene Climate. IODP/ICDP Kolloquium Bochum 2018, Bochum (Germany).
- **Dallanave E.**, et alii. Eocene tectonic compression in Northern Zealandia: Magneto-biostratigraphic constraints from the sedimentary records of New Caledonia (Southwest Pacific Ocean). AGU Fall Meeting 2017, New Orleans (LA, USA).
- **Dallanave E.**, (keynote speaker) et alii. Early to middle Eocene chronology of Zealandia: magnetostratigraphic data from New Zealand and New Caledonia. Geological Society of New Zealand Meeting 2015, Wellington (New Zealand).

- **Dallanave E., et alii.** Tracing the efficiency of chemical weathering through magnetic properties of sediment: The Paleocene–Eocene case study. Goldschmidt 2015, Prague (Czech Republic).
- **Dallanave E., et alii.** Early to middle Eocene magneto-biochronology of the southwest Pacific Ocean and climate influence on sedimentation: new data from the Mead Stream section (Marlborough, New Zealand). AGU Fall Meeting 2014, San Francisco (CA, USA).
- **Dallanave E., et alii.** Early–middle Eocene magneto-biochronology of the Southern Pacific Ocean: new data from the South Island of New Zealand. CBEP Meeting 2014, Ferrara (Italy).
- **Dallanave E., et alii.** Early–middle Eocene magneto-biochronology of the Southern Pacific Ocean: new data from the South Island of New Zealand. AGU Fall Meeting 2012, San Francisco (CA, USA).
- **Dallanave E., et alii.** Magneto-biostratigraphy and rock-magnetism of the late Cretaceous–late Paleocene Ardo section (Belluno Basin, NE Italy). EGU Meeting 2011, Vienna (Austria).
- **Dallanave E., et alii.** Late Cretaceous–early Eocene magneto-biostratigraphy and rock-magnetism from the Belluno Basin (NE Italy). CBEP Meeting 2011, Salzburg (Austria).
- **Dallanave E., et alii.** Late Paleocene to Early Eocene Magneto-Biostratigraphy of the Cicogna section (Belluno Basin, NE Italy): A record of continental weathering. EGU Meeting 2009, Vienna (Austria).
- **Dallanave E., et alii.** Magnetic characterization of the late Paleocene–early Eocene Cicogna section (NE Italy): climate forcing on sedimentation. AGU Fall meeting 2009, San Francisco (CA, USA).
- **Dallanave E., et alii.** The magneto-bio-chemostratigraphy of the Torrente Cicogna section (Italy): a record of Late Paleocene–Early Eocene climate. EGU Meeting 2008, Vienna (Austria).
- **Dallanave E., et alii.** Late Paleocene to Early Eocene Magneto-Biostratigraphy of the Cicogna section (Belluno Basin, NE Italy), AGU Fall Meeting 2008, San Francisco (CA, USA).