

Publications of scientific ocean drilling related research (2013-today)

Publications 2013-today with Swiss co-authorship (indicated in bold font) and related to scientific ocean drilling (DSDP/ODP/IODP) are listed below. The list is compiled in part from the IODP publication data base <http://iodp.tamu.edu/publications/citations/database.html> (search criteria: affiliation=Switzerland, Year of Publication=2013-2016) and from direct input from the Swiss Science community.

Alt, J.C., **Schwarzenbach, E.M.**, Früh-Green, G.L., Shanks, W.C., **Bernasconi, S.M.**, Garrido, C.J., Crispini, L., Gaggero, L., Padrón-Navarta, J.A., Marchesi, C., 2013. The role of serpentinites in cycling of carbon and sulfur: Seafloor serpentinization and subduction metamorphism. *Lithos* 178, 40–54. 10.1016/j.lithos.2012.12.006.

Alves, T.M., Kurtev, K., Moore, G.F., **Strasser, M.**, 2014. Assessing the internal character, reservoir potential, and seal competence of mass-transport deposits using seismic texture: A geophysical and petrophysical approach. *Bulletin* 98 (4), 793–824. 10.1306/09121313117.

Alves, T.M., **Strasser, M.**, Moore, G.F., 2014. Erosional features as indicators of thrust fault activity (Nankai Trough, Japan). *Marine Geology* 356, 5–18. 10.1016/j.margeo.2013.07.011.

Amsler, H.E., Reusser, E., Milliken, K., **Strasser, M.**, 2014. Elemental Distribution and Microfabric Characterization Across a Buried Slump Scar: New Insights on the Long-Term Development and Reactivation of Scar Surfaces from a Microscopic Perspective. In: Krastel, S., Behrmann, J.-H., Völker, D., Stipp, M., Berndt, C., Urgeles, R., Chaytor, J., Huhn, K., **Strasser, M.**, Harbitz, C.B. (Eds.), *Submarine Mass Movements and Their Consequences*, vol. 37. Springer International Publishing, Cham, pp. 23–32.

Ando, A., Woodard, S.C., Evans, H.F., Littler, K., **Herrmann, S.**, Macleod, K.G., Kim, S., Khim, B.-K., Robinson, S.A., Huber, B.T., 2013. An emerging palaeoceanographic 'missing link': multidisciplinary study of rarely recovered parts of deep-sea Santonian–Campanian transition from Shatsky Rise. *Journal of the Geological Society* 170 (3), 381–384. 10.1144/jgs2012-137.

Arculus, R.J., Ishizuka, O., Bogus, K.A., Gurnis, M., Hickey-Vargas, R., Aljahdali, M.H., Bandini-Maeder, A.N., Barth, A.P., Brandl, P.A., Drab, L., do Monte Guerra, Rodrigo, Hamada, M., Jiang, F., Kanayama, K., Kender, S., Kusano, Y., Li, H., Loudin, L.C., Maffione, M., Marsaglia, K.M., **McCarthy, A.**, Meffre, S., Morris, A., Neuhaus, M., Savov, I.P., Sena, C., Tepley III, Frank J., van der Land, Cees, Yogodzinski, G.M., Zhang, Z., 2015. A record of spontaneous subduction initiation in the Izu–Bonin–Mariana arc. *Nature Geosci* 8 (9), 728–733. 10.1038/ngeo2515.

Baumberger, T., Früh-Green, G.L., Thorseth, I.H., Lilley, M.D., **Bernasconi S.M.**, Pedersen, R.B., submitted. Fluid element and isotope composition of the sediment-influenced Loki's Castle vent field at the ultra-slow spreading Arctic Mid-Ocean Ridge. *Geochimica Cosmochimica Acta*.

Bengtson, S., Ivarsson, M., Astolfo, A., Belivanova, V., Broman, C., **Marone, F.**, **Stampanoni, M.**, 2014. Deep-biosphere consortium of fungi and prokaryotes in Eocene subseafloor basalts. *Geobiology* 12 (6), 489–496. 10.1111/gbi.12100.

Bodin, S., Godet, A., Westermann, S., Föllmi, K.B., 2013. Secular change in northwestern Tethyan water-mass oxygenation during the late Hauterivian–early Aptian. *Earth and Planetary Science Letters* 374, 121–131. 10.1016/j.epsl.2013.05.030.

Böhm, E., **Lippold, J.**, Gutjahr, M., Frank, M., Blaser, P., Antz, B., Fohlmeister, J., Frank, N., **Andersen, M.B.**, Deininger, M., 2014. Strong and deep Atlantic meridional overturning circulation during the last glacial cycle. *Nature* 517 (7532), 73–76. 10.1038/nature14059.

- Bomou, B., **Adatte, T.**, Tantawy, A.A., Mort, H., **Fleitmann, D.**, Huang, Y., **Föllmi, K.B.**, 2013. The expression of the Cenomanian–Turonian oceanic anoxic event in Tibet. *Palaeogeography, Palaeoclimatology, Palaeoecology* 369, 466–481. 10.1016/j.palaeo.2012.11.011.
- Boschi, C., Bonatti, E., Ligi, M., Brunelli, D., Cipriani, A., Dallai, L., D'Orazio, M., **Früh-Green, G.L.**, Tonarini, S., Barnes, J.D., Bedini, R.M., 2013. Serpentization of mantle peridotites along an uplifted lithospheric section, Mid Atlantic Ridge at 11° N. *Lithos* 178, 3–23. 10.1016/j.lithos.2013.06.003.
- Cartapanis, O. A.**, Bianchi, D., **Jaccard, S.L.**, Galbraith, E.D., 2016. Global pulses of organic carbon burial in deep-sea sediments during glacial maxima. *Nature Communications*, 7:10796.
- Charbonnier, G.**, Duchamp-Alphonse, S., **Adatte, T.**, **Föllmi, K.B.**, **Spangenberg, J.E.**, Gardin, S., Galbrun, B., Colin, C., 2016. Eccentricity paced monsoon-like system along the northwestern Tethyan margin during the Valanginian (Early Cretaceous): New insights from detrital and nutrient fluxes into the Vocontian Basin (SE France). *Palaeogeography, Palaeoclimatology, Palaeoecology* 443, 145–155. 10.1016/j.palaeo.2015.11.027.
- Charbonnier, G.**, Boulila, S., Gardin, S., Duchamp-Alphonse, S., **Adatte, T.**, **Spangenberg, J.E.**, **Föllmi, K.B.**, Colin, C., Galbrun, B., 2013. Astronomical calibration of the Valanginian “Weissert” episode: The Orpierre marl-limestone succession (Vocontian Basin, southeastern France). *Cretaceous Research* 45, 25–42. 10.1016/j.cretres.2013.07.003.
- Cogez, A., Meynadier, L., Allègre, C., Limmois, D., **Herman, F.**, Gaillardet, J., 2015. Constraints on the role of tectonic and climate on erosion revealed by two time series analysis of marine cores around New Zealand. *Earth and Planetary Science Letters* 410, 174–185. 10.1016/j.epsl.2014.11.029.
- Constandache, M.**, **Yerly, F.**, **Spezzaferri, S.**, 2013. Internal pore measurements on macroperforate planktonic Foraminifera as an alternative morphometric approach. *Swiss J Geosci* 106 (2), 179–186. 10.1007/s00015-013-0134-8.
- Coxall, H. and **Spezzaferri, S.**, submitted. Taxonomy, biostratigraphy and phylogeny of Oligocene *Globorotaloides* and *Catapsydrax*. *Cushman Foundation for Foraminiferal Research, Special Publication*.
- Denny, A. R., Kelley, D.S., **Früh-Green, G.L.**, 2015. Geologic evolution of the Lost City Hydrothermal Field, *Geochem. Geophys. Geosyst.*, 17, 375–394. 10.1002/2015GC005869.
- D'Hondt, S., Inagaki, F., Zarikian, C.A., Abrams, L.J., **Dubois, N.**, Engelhardt, T., Evans, H., Ferdelman, T., Gribsholt, B., Harris, R.N., Hoppie, B.W., Hyun, J.-H., Kallmeyer, J., Kim, J., Lynch, J.E., McKinley, C.C., Mitsunobu, S., Morono, Y., Murray, R.W., Pockalny, R., Sauvage, J., Shimono, T., Shiraishi, F., Smith, D.C., Smith-Duque, C.E., Spivack, A.J., Steinsbu, B.O., Suzuki, Y., Szpak, M., Toffin, L., Uramoto, G., Yamaguchi, Y.T., Zhang, G.-L., Zhang, X.-H., Ziebis, W., 2015. Presence of oxygen and aerobic communities from sea floor to basement in deep-sea sediments. *Nature Geosci* 8 (4), 299–304. 10.1038/ngeo2387.
- Dultz, S., Simonyan, A.V., Pastrana, J., Behrens, H., **Plötze, M.**, Rath, T., 2013. Implications of pore space characteristics on diffusive transport in basalts and granites. *Environ Earth Sci* 69 (3), 969–985. 10.1007/s12665-012-1981-8.
- Efimenko, N.**, Schneider, J., **Spangenberg, J.E.**, **Chiaraadia, M.**, **Adatte, T.**, **Föllmi, K.B.**, 2014. Formation and age of sphalerite mineralization in carbonate rocks of Bajocian age in the Swiss Jura Mountains: evidence of Mesozoic hydrothermal activity. *Int J Earth Sci (Geol Rundsch)* 103 (4), 1059–1082. 10.1007/s00531-014-1015-8.
- Erba, E., Duncan, R.A., Bottini, C., Tiraboschi, D., **Weissert, H.**, Jenkyns, H.C., Malinverno, A., 2015. Environmental consequences of Ontong Java Plateau and Kerguelen Plateau volcanism. In: *The Origin, Evolution, and Environmental Impact of Oceanic Large Igneous Provinces*, vol. 511. Geological Society of America, pp. 271–303.

Fink, H.G., **Strasser, M.**, Römer, M., Kölling, M., Ikebara, K., Kanamatsu, T., Dinten, D., Kioka, A., Fujiwara, T., Kawamura, K., Kodaira, S., Wefer, G., 2014. Evidence for Mass Transport Deposits at the IODP JFAST-Site in the Japan Trench. In: Krastel, S., Behrmann, J.-H., Völker, D., Stipp, M., Berndt, C., Urgeles, R., Chaytor, J., Huhn, K., **Strasser, M.**, Harbitz, C.B. (Eds.), Submarine Mass Movements and Their Consequences, vol. 37. Springer International Publishing, Cham, pp. 33–43.

Föllmi, K.B., 2016. Sedimentary condensation. *Earth-Science Reviews* 152, 143–180.
10.1016/j.earscirev.2015.11.016.

Föllmi, K.B., Hofmann, H., Chiaradia, M., Kaenel, E. de, Frijia, G., Parente, M., 2015. Miocene phosphate-rich sediments in Salento (southern Italy). *Sedimentary Geology* 327, 55–71.
10.1016/j.sedgeo.2015.07.009.

Föllmi, K.B., Godet, A., 2013. Palaeoceanography of Lower Cretaceous Alpine platform carbonates. *Sedimentology* 60 (1), 131–151. 10.1111/sed.12004.

Föllmi, K.B., Schlunegger, F., Weissert, H., 2013. Alpine sedimentology: An introduction and tribute to Albert Matter and Daniel Bernoulli. *Sedimentology* 60 (1), 1–18. 10.1111/sed.12014.

Font, E., Fabre, S., Nédélec, A., **Adatte, T.**, Keller, G., Veiga-Pires, C., Ponte, J., Mirão, J., **Khozyem, H.**, and **Spangenberg, J.**, 2014. Atmospheric halogen and acid rains during the main phase of Deccan eruptions: Magnetic and mineral evidence: in Keller, G., and Kerr, A.C., eds., Volcanism, Impacts, and Mass Extinctions: Causes and Effects: Geological Society of America Special Paper 505, p. 353–368.

Früh-Green, G.L., Orcutt, B.N., and Green, S., 2015. Expedition 357 Scientific Prospectus: Atlantis Massif Serpentinitization and Life. International Ocean Discovery Program.
<http://dx.doi.org/10.14379/iodp.sp.327.2015>.

Galbraith, E.D., **Jaccard, S.L.**, 2015. Deglacial weakening of the oceanic soft tissue pump: global constraints from sedimentary nitrogen isotopes and oxygenation proxies. *Quaternary Science Reviews*, 109, 38–49.

Galbraith, E.D., Kienast, M., Albuquerque, A.L., Altabet, M.A., Batista, F., Bianchi, D., Calvert, S.E., Contreras, S., Crosta, X., De Pol-Holz, R., Dubois, N., Etourneau, J., Francois, R., Hsu, T.-C., Ivanochko, T., **Jaccard, S.L.**, Kao, S.-J., **Kiefer, T.**, Kienast, S., **Lehmann, M.F.**, Martinez, P., McCarthy, M., **Meckler, A.N.**, Mix, A., Möbius, J., Pedersen, T.F., Pichevin, L., Quan, T.M., Robinson, R.S., Ryabenko, E., Schmittner, A., Schneider, R., Schneider-Mor, A., Shigemitsu, M., Sinclair, D., Somes, C., **Studer, A.S.**, Tesdal, J.-E., Thunell, R., Yang, J.-Y.T., 2013. Acceleration of oceanic denitrification during deglacial warming. *Nature Geoscience*, 6, 579–583.

Giorgioni, M., Weissert, H., Bernasconi, S.M., Hochuli, P.A., Keller, C.E., Coccioni, R., PETRIZZO, M.R., Lukeneder, A., **Garcia, T.I.**, 2015. Paleoceanographic changes during the Albian–Cenomanian in the Tethys and North Atlantic and the onset of the Cretaceous chalk. *Global and Planetary Change* 126, 46–61. 10.1016/j.gloplacha.2015.01.005.

Godet, A., **Föllmi, K.B.**, **Spangenberg, J.E.**, **Bodin, S.**, Vermeulen, J., **Adatte, T.**, **Bonvallet, L.**, Arnaud, H., **Weissert, H.**, 2013. Deciphering the message of Early Cretaceous drowning surfaces from the Helvetic Alps: What can be learnt from platform to basin correlations? *Sedimentology* 60 (1), 152–173.
10.1111/sed.12008.

Goudeau, M.-L.S., Reichart, G.-J., Wit, J.C., Nooijer, L.J. de, **Grauel, A.-L.**, **Bernasconi, S.M.**, Lange, G.J. de, 2015. Seasonality variations in the Central Mediterranean during climate change events in the Late Holocene. *Palaeogeography, Palaeoclimatology, Palaeoecology* 418, 304–318.
10.1016/j.palaeo.2014.11.004.

Goudeau, M.-L.S., **Grauel, A.-L.**, Tessarolo, C., Leider, A., Chen, L., **Bernasconi, S.M.**, Versteegh, G.J., Zonneveld, K.A., Boer, W., Alonso-Hernandez, C.M., de Lange, Gert J., 2014. The Glacial–Interglacial transition and Holocene environmental changes in sediments from the Gulf of Taranto, central Mediterranean. *Marine Geology* 348, 88–102. 10.1016/j.margeo.2013.12.003.

Goudeau, M.-L.S., **Grauel, A.-L.**, **Bernasconi, S.M.**, de Lange, Gert J., 2013. Provenance of surface sediments along the southeastern Adriatic coast off Italy: An overview. *Estuarine, Coastal and Shelf Science* 134, 45–56. 10.1016/j.ecss.2013.09.009.

Grauel, A.-L., Goudeau, M.-L.S., de Lange, G. J., **Bernasconi, S.M.**, 2013. Climate of the past 2500 years in the Gulf of Taranto, central Mediterranean Sea: A high-resolution climate reconstruction based on ^{18}O and ^{13}C of *Globigerinoides ruber* (white). *The Holocene* 23 (10), 1440–1446. 10.1177/0959683613493937.

Grauel, A.-L., **Schmid, T.W.**, Hu, B., Bergami, C., Capotondi, L., Zhou, L., **Bernasconi, S.M.**, 2013. Calibration and application of the ‘clumped isotope’ thermometer to foraminifera for high-resolution climate reconstructions. *Geochimica et Cosmochimica Acta* 108, 125–140. 10.1016/j.gca.2012.12.049.

Hayes, C.T., **Martinez-Garcia, A.**, **Hasenfratz, A.P.**, **Jaccard, S.L.**, Hodell, D.A., Sigman, D.M., **Haug, G.H.**, Anderson, R.F., 2014. A stagnation event in the deep South Atlantic during the last interglacial period. *Science* 346 (6216), 1514–1517. 10.1126/science.1256620.

Hernández-Almeida, I., Sierro, F.-J., Cacho, I., Flores, J.-A., 2015. Subsurface North Atlantic warming as a trigger of rapid cooling events: evidence from the early Pleistocene (MIS 31–19). *Clim. Past* 11 (4), 687–696. 10.5194/cp-11-687-2015.

Hilgen, F.J., Hinnov, L.A., Abdul Aziz, H., Abels, H.A., Batenburg, S., Bosmans, J. H. C., Boer, B. de, Husing, S.K., Kuiper, K.F., Lourens, L.J., Rivera, T., Tuenter, E., Van de Wal, R. S. W., **Wotzlaw, J.-F.**, Zeeden, C., 2015. Stratigraphic continuity and fragmentary sedimentation: the success of cyclostratigraphy as part of integrated stratigraphy. *Geological Society, London, Special Publications* 404 (1), 157–197. 10.1144/SP404.12.

Huck, S., Stein, M., Immenhauser, A., Skelton, P.W., Christ, N., **Föllmi, K.B.**, Heimhofer, U., 2014. Response of proto-North Atlantic carbonate-platform ecosystems to OAE1a-related stressors. *Sedimentary Geology* 313, 15–31. 10.1016/j.sedgeo.2014.08.003.

Inagaki, F., Hinrichs, K.-U., Kubo, Y., Bowles, M.W., Heuer, V.B., Hong, W.-L., Hoshino, T., Ijiri, A., Imachi, H., Ito, M., Kaneko, M., **Lever, M.A.**, Lin, Y.-S., Methé, B.A., Morita, S., Morono, Y., Tanikawa, W., Bihan, M., Bowden, S.A., Elvert, M., Glombitza, C., Gross, D., Harrington, G.J., Hori, T., Li, K., Limmer, D., Liu, C.-H., Murayama, M., Ohkouchi, N., Ono, S., Park, Y.-S., Phillips, S.C., Prieto-Mollar, X., Purkey, M., Riedinger, N., Sanada, Y., Sauvage, J., Snyder, G., Susilawati, R., Takano, Y., Tasumi, E., Terada, T., Tomaru, H., Trembath-Reichert, E., Wang, D.T., Yamada, Y., 2015. Exploring deep microbial life in coal-bearing sediment down to 2.5 km below the ocean floor. *Science* 349 (6246), 420–424. 10.1126/science.aaa6882.

Jaccard, S.L., Galbraith, E.D., **Froelicher, T.L.**, **Gruber, N.**, 2014. Ocean (de)oxygenation across the last deglaciation – Insights for the future. *Oceanography* 27(1), 26–35.

Jaccard, S.L., Galbraith, E.D., 2013. Direct ventilation of the North Pacific did not reach the deep ocean during the last deglaciation. *Geophys. Res. Lett.* 40 (1), 199–203. 10.1029/2012GL054118.

Jaccard, S.L., Hayes, C.T., **Martinez-Garcia, A.**, Hodell, D.A., Anderson, R.F., Sigman, D.M., **Haug, G.H.**, 2013. Two Modes of Change in Southern Ocean Productivity Over the Past Million Years. *Science* 339 (6126), 1419–1423. 10.1126/science.1227545.

Jaeschke, A., Eickmann, B., **Bernasconi, S.M.**, Strauss, H., **Früh-Green, G.L.**, 2014. Biosignatures in chimney structures and sediment from the Loki's Castle low-temperature hydrothermal vent field at the Arctic Mid-Ocean Ridge. *Extremophiles : life under extreme conditions* 18 (3), 545–560. 10.1007/s00792-014-0640-2.

Jaramillo-Vogel, D., **Strasser, A.**, Frijia, G., **Spezzaferri, S.**, 2013. Neritic isotope and sedimentary records of the Eocene–Oligocene greenhouse–icehouse transition: The Calcare di Nago Formation (northern Italy) in

a global context. *Palaeogeography, Palaeoclimatology, Palaeoecology* 369, 361–376. 10.1016/j.palaeo.2012.11.003.

Johnstone, Heather J. H., **Kiefer, T.**, Elderfield, H., Schulz, M., 2014. Calcite saturation, foraminiferal test mass, and Mg/Ca-based temperatures dissolution corrected using XDX-A 150 ka record from the western Indian Ocean. *Geochem. Geophys. Geosyst.* 15 (3), 781–797. 10.1002/2013GC004994.

Jones, T.D., Lawson, I.T., Reed, J.M., Wilson, G.P., Leng, M.J., **Gierga, M.**, **Bernasconi, S.M.**, **Smittenberg, R.H.**, **Hajdas, I.**, Bryant, C.L., Tzedakis, P.C., 2013. Diatom-inferred late Pleistocene and Holocene palaeolimnological changes in the Ioannina basin, northwest Greece. *J Paleolimnol* 49 (2), 185–204. 10.1007/s10933-012-9654-x.

Kanamatsu, T., Kawamura, K., **Strasser, M.**, Novak, B., Kitamura, Y., 2014. Flow dynamics of Nankai Trough submarine landslide inferred from internal deformation using magnetic fabric. *Geochem. Geophys. Geosyst.* 15 (10), 4079–4092. 10.1002/2014GC005409.

Keller, G., **Khozyem, H.**, **Adatte, T.**, Malarkodi, N., **Spangenberg, J.E.**, Stinnesbeck, W., 2013. Chicxulub impact spherules in the North Atlantic and Caribbean: age constraints and Cretaceous–Tertiary boundary hiatus. *Geol. Mag.* 150 (05), 885–907. 10.1017/S0016756812001069.

Kendrick, M.A., Honda, M., **Pettke, T.**, Scambelluri, M., Phillips, D., Giuliani, A., 2013. Subduction zone fluxes of halogens and noble gases in seafloor and forearc serpentinites. *Earth and Planetary Science Letters* 365, 86–96. 10.1016/j.epsl.2013.01.006.

Kirkpatrick, J.D., **Strasser, M.**, Kodaira, S., Sample, J., Mori, J., Saito, S., 2015. IODP workshop: tracking the Tsunamigenic slips across and along the Japan Trench (JTRACK). *Sci. Dril.* 19, 27–32. 10.5194/sd-19-27-2015.

Kitamura, Y., **Strasser, M.**, Novak, B., Kanamatsu, T., Kawamura, K., Zhao, X., 2014. Characteristics of Magnetic Fabrics in Mass Transport Deposits in the Nankai Trough Trench Slope, Japan. In: Krastel, S., Behrmann, J.-H., Völker, D., Stipp, M., Berndt, C., Urgeles, R., Chaytor, J., Huhn, K., **Strasser, M.**, Harbitz, C.B. (Eds.), *Submarine Mass Movements and Their Consequences*, vol. 37. Springer International Publishing, Cham, pp. 649–658.

Krencker, F.N., **Bodin, S.**, Hoffmann, R., Suan, G., Mattioli, E., Kabiri, L., **Föllmi, K.B.**, Immenhauser, A., 2014. The middle Toarcian cold snap: Trigger of mass extinction and carbonate factory demise. *Global and Planetary Change* 117, 64–78. 10.1016/j.gloplacha.2014.03.008.

Kujau, A., Heimhofer, U., **Hochuli, P.A.**, **Pauly, S.**, **Morales, C.**, **Adatte, T.**, **Föllmi, K.**, Ploch, I., Mutterlose, J., 2013. Reconstructing Valanginian (Early Cretaceous) mid-latitude vegetation and climate dynamics based on spore–pollen assemblages. *Review of Palaeobotany and Palynology* 197, 50–69. 10.1016/j.revpalbo.2013.05.003.

Lamy, F., Gersonde, R., Winckler, G., Esper, O., Jaeschke, A., Kuhn, G., Ullermann, J., **Martinez-Garcia, A.**, Lambert, F., Kilian, R., 2014. Increased Dust Deposition in the Pacific Southern Ocean During Glacial Periods. *Science* 343 (6169), 403–407. 10.1126/science.1245424.

Lang, S.Q., **Früh-Green, G.L.**, **Bernasconi, S.M.**, Butterfield, D.A., 2013. Sources of organic nitrogen at the serpentinite-hosted Lost City hydrothermal field. *Geobiology* 11 (2), 154–169. 10.1111/gbi.12026.

Laurent, D., **Kaenel, E. de**, **Spangenberg, J.E.**, **Föllmi, K.B.**, 2015. A sedimentological model of organic-matter preservation and phosphogenesis in the Miocene Monterey Formation at Haskells Beach, Goleta (central California). *Sedimentary Geology* 326, 16–32. 10.1016/j.sedgeo.2015.06.008.

Lawrence, K.T., Sigman, D.M., Herbert, T.D., Riihimaki, C.A., Bolton, C.T., **Martinez-Garcia, A.**, Rosell-Mele, A., **Haug, G.H.**, 2013. Time-transgressive North Atlantic productivity changes upon Northern Hemisphere glaciation. *Paleoceanography* 28 (4), 740–751. 10.1002/2013PA002546.

Leckie, R.M., Fox, I., Fraas, A., Olsson, R.K., Pearson, P.N., Premoli Silva, I., **Spezzaferri, S.** and Wade, B., submitted. Taxonomy, biostratigraphy, and phylogeny of Oligocene *Paragloborotalia* and *Parasubbotina*. *Cushman Foundation for Foraminiferal Research, Special Publication*.

Lever, M.A., 2016. A New Era of Methanogenesis Research. *Trends in Microbiology* 24 (2), 84–86. 10.1016/j.tim.2015.12.005.

Lever, M.A., Rogers, K.L., Lloyd, K.G., Overmann, J., Schink, B., Thauer, R.K., Hoehler, T.M., Jørgensen, B.B., Giudici-Orticoni, M.-T., 2015. Life under extreme energy limitation: a synthesis of laboratory- and field-based investigations. *FEMS Microbiology Reviews* 39 (5), 688–728. 10.1093/femsre/fuv020.

Lever, M.A., Torti, A., Eickenbusch, P., Michaud, A.B., Santl-Temkiv, T., Jørgensen, B.B., 2015. A modular method for the extraction of DNA and RNA, and the separation of DNA pools from diverse environmental sample types. *Front. Microbiol.* 6 (327), 1281. 10.3389/fmicb.2015.00476.

Li, C.-F., Li, J., Ding, W., Franke, D., Yao, Y., Shi, H., Pang, X., Cao, Y., Lin, J., Kulhanek, D.K., Williams, T., **Bao, R.**, Briais, A., Brown, E.A., Chen, Y., Clift, P.D., Colwell, F.S., Dadd, K.A., Hernández-Almeida, I., Huang, X.-L., Hyun, S., Jiang, T., Koppers, Anthony A. P., Li, Q., Liu, C., Liu, Q., Liu, Z., Nagai, R.H., Peleo-Alampay, A., Su, X., Sun, Z., Tejada, Maria Luisa G., Trinh, H.S., Yeh, Y.-C., Zhang, C., Zhang, F., Zhang, G.-L., Zhao, X., 2015. Seismic stratigraphy of the central South China Sea basin and implications for neotectonics. *J. Geophys. Res. Solid Earth* 120 (3), 1377–1399. 10.1002/2014JB011686.

Li, C.-F., Xu, X., Lin, J., Sun, Z., Zhu, J., Yao, Y., Zhao, X., Liu, Q., Kulhanek, D.K., Wang, J., Song, T., Zhao, J., Qiu, N., Guan, Y., Zhou, Z., Williams, T., **Bao, R.**, Briais, A., Brown, E.A., Chen, Y., Clift, P.D., Colwell, F.S., Dadd, K.A., Ding, W., **Almeida, I.H.**, Huang, X.-L., Hyun, S., Jiang, T., Koppers, Anthony A. P., Li, Q., Liu, C., Liu, Z., Nagai, R.H., Peleo-Alampay, A., Su, X., Tejada, Maria Luisa G., Trinh, H.S., Yeh, Y.-C., Zhang, C., Zhang, F., Zhang, G.-L., Zhao, X., 2014. Ages and magnetic structures of the South China Sea constrained by deep tow magnetic surveys and IODP Expedition 349. *Geochem. Geophys. Geosyst.* 15 (12), 4958–4983. 10.1002/2014GC005567.

Martínez-Botí, M.A., Marino, G., Foster, G.L., Ziveri, P., Henehan, M.J., Rae, J. W. B., Mortyn, P.G., **Vance, D.**, 2015. Boron isotope evidence for oceanic carbon dioxide leakage during the last deglaciation. *Nature* 518 (7538), 219–222. 10.1038/nature14155.

Martinez-Garcia, A., Sigman, D.M., Ren, H., Anderson, R.F., Straub, M., Hodell, D.A., **Jaccard, S.L.**, **Eglinton, T.I.**, **Haug, G.H.**, 2014. Iron Fertilization of the Subantarctic Ocean During the Last Ice Age. *Science* 343 (6177), 1347–1350. 10.1126/science.1246848.

Mary, Y., **Knappertbusch, M.W.**, 2013. Morphological variability of menardiform globorotalids in the Atlantic Ocean during Mid-Pliocene. *Marine Micropaleontology* 101, 180–193. 10.1016/j.marmicro.2012.12.001.

McGee, D., Winckler, G., Borunda, A., Serno, S., Anderson, R.F., Recasens, C., Bory, A., Gaiero, D., **Jaccard, S.L.**, Kaplan, M., McManus, J.F., Revel, M., Sun, Y., 2016. Tracking eolian dust with helium and thorium: Impacts of grain size and provenance. *Geochimica et Cosmochimica Acta*, 175, 47-67.

Meckler, A.N., Sigman, D.M., Gibson, K.A., François, R., **Martínez-García, A.**, **Jaccard, S.L.**, Röhl, U., Peterson, L.C., Tiedemann, R., **Haug, G.H.**, 2013. Deglacial pulses of deep-ocean silicate into the subtropical North Atlantic Ocean. *Nature* 495 (7442), 495–498. 10.1038/nature12006.

Méhay, S., **Früh-Green, G.L.**, **Lang, S.Q.**, **Bernasconi, S.M.**, Brazelton, W.J., Schrenk, M.O., Schaeffer, P., Adam, P., 2013. Record of archaeal activity at the serpentinite-hosted Lost City Hydrothermal Field. *Geobiology* 11 (6), 570–592. 10.1111/gbi.12062.

Montero-Serrano, J.-C., **Föllmi, K.B.**, **Adatte, T.**, **Spangenberg, J.E.**, Tribouillard, N., Fantasia, A., Suan, G., 2015. Continental weathering and redox conditions during the early Toarcian Oceanic Anoxic Event in the northwestern Tethys: Insight from the Posidonia Shale section in the Swiss Jura Mountains. *Palaeogeography, Palaeoclimatology, Palaeoecology* 429, 83–99. 10.1016/j.palaeo.2015.03.043.

Moore, G.F., **Strasser, M.**, 2016. Large Mass Transport Deposits in Kumano Basin, Nankai Trough, Japan. In: Lamarche, G., Mountjoy, J., Bull, S., Hubble, T., Krastel, S., Lane, E., Micallef, A., Moscardelli, L., Mueller, C., Pecher, I., Woelz, S. (Eds.), Submarine Mass Movements and their Consequences, vol. 41. Springer International Publishing, Cham, pp. 371–379.

Moore, G.F., Boston, B.B., **Strasser, M.**, Underwood, M.B., Ratliff, R.A., 2015. Evolution of tectono-sedimentary systems in the Kumano Basin, Nankai Trough forearc. *Marine and Petroleum Geology* 67, 604–616. 10.1016/j.marpetgeo.2015.05.032.

Moore, G.F., Kanagawa, K., **Strasser, M.**, Dugan, B., Maeda, L., Toczko, S., 2014. IODP Expedition 338: NanTroSEIZE Stage 3: NanTroSEIZE plate boundary deep riser 2. *Sci. Dril.* 17, 1–12. 10.5194/sd-17-1-2014.

Morales, C., Spangenberg, J., Arnaud-Vanneau, A., Adatte, T., Föllmi, K.B., 2016. Evolution of the northern Tethyan Helvetic platform during the late Berriasian and early Valanginian. *The Depositional Record*, in press.

Morales, C., Kujau, A., Heimhofer, U., Mutterlose, J., **Spangenberg, J.E., Adatte, T., Ploch, I., Föllmi, K.B.,** 2015. Palaeoclimate and palaeoenvironmental changes through the onset of the Valanginian carbon-isotope excursion: evidence from the Polish Basin. *Palaeogeography, Palaeoclimatology, Palaeoecology* 426, 183–198.

Morales, C., Gardin, S., Schnyder, J., Spangenberg, J., Arnaud-Vanneau, A., Arnaud, H., Adatte, T., Föllmi, K.B., 2013. Berriasian and early Valanginian environmental change along a transect from the Jura Platform to the Vocontian Basin. *Sedimentology* 60 (1), 36–63. 10.1111/sed.12019.

Naafs, B., **Martínez-García, A.,** Grützner, J., Higgins, S., 2014. Comment on “The transition on North America from the warm humid Pliocene to the glaciated Quaternary traced by eolian dust deposition at a benchmark North Atlantic Ocean drill site, by David Lang et al. *Quaternary Science Reviews* 93: 125–141”. *Quaternary Science Reviews* 103, 175–179. 10.1016/j.quascirev.2014.08.014.

Ogata, K., Pini, G.A., Festa, A., Pogačnik, Ž., Tunis, G., Mountjoy, J.J., Senger, K., **Strasser, M.**, 2014. High-Resolution Studies of Mass Transport Deposits: Outcrop Perspective for Understanding Modern Submarine Slope Failure and Associated Natural Hazards. In: Lollino, G., Manconi, A., Locat, J., Huang, Y., Canals Artigas, M. (Eds.), *Engineering Geology for Society and Territory - Volume 4*. Springer International Publishing, Cham, pp. 209–213.

Pearson, P.N., Olsson, R.K., **Spezzaferri, S.** and Leckie, M., submitted. Taxonomy, biostratigraphy and phylogeny of Oligocene Globanomalinidae (*Pseudohastigerian* and *Turborotalia*). *Cushman Foundation for Foraminiferal Research, Special Publication*.

Pearson, P.N., **Spezzaferri, S.** and Kucera, M., submitted. Taxonomy, biostratigraphy and phylogeny of Oligocene *Cassigerinella*. *Cushman Foundation for Foraminiferal Research, Special Publication*.

PETRIZZO, M.R., **CARON, M.**, PREMOLI SILVA, I., 2015. Remarks on the identification of the Albian/Cenomanian boundary and taxonomic clarification of the planktonic foraminifera index species *globotruncanoides*, *brotzeni* and *tehamaensis*. *Geol. Mag.* 152 (03), 521–536. 10.1017/S0016756814000478.

Pfister, P.L., Stocker, T.F., Rempfer, J., Ritz, S.P., 2014. Influence of the Central American Seaway and Drake Passage on ocean circulation and neodymium isotopes: A model study. *Paleoceanography* 29 (12), 1214–1237. 10.1002/2014PA002666.

Pictet, A., Delanoy, G., Adatte, T., Spangenberg, J.E., Baudouin, C., Boselli, P., Boselli, M., Kindler, P., Föllmi, K.B., 2015. Three successive phases of platform demise during the early Aptian and their association with the oceanic anoxic Selli episode (Ardèche, France). *Palaeogeography, Palaeoclimatology, Palaeoecology* 418, 101–125. 10.1016/j.palaeo.2014.11.008.

- Pretet, C.**, Reynaud, S., Ferrier-Pagès, C., Gattuso, J.-P., Kamber, B.S., **Samankassou, E.**, 2014. Effect of salinity on the skeletal chemistry of cultured scleractinian zooxanthellate corals: Cd/Ca ratio as a potential proxy for salinity reconstruction. *Coral Reefs* 33 (1), 169–180. 10.1007/s00338-013-1098-x.
- Pretet, C.**, **Samankassou, E.**, Felis, T., Reynaud, S., Böhm, F., Eisenhauer, A., Ferrier-Pagès, C., Gattuso, J.-P., Camoin, G., 2013. Constraining calcium isotope fractionation ($\delta^{44}/\delta^{40}\text{Ca}$) in modern and fossil scleractinian coral skeleton. *Chemical Geology* 340, 49–58. 10.1016/j.chemgeo.2012.12.006.
- Riedinger, N., **Strasser, M.**, Harris, R.N., Klockgether, G., Lyons, T.W., Screamton, E.J., 2015. Deep subsurface carbon cycling in the Nankai Trough (Japan)-Evidence of tectonically induced stimulation of a deep microbial biosphere. *Geochem. Geophys. Geosyst.* 16 (9), 3257–3270. 10.1002/2015GC006050.
- Rosell-Melé, A., **Martínez-García, A.**, McClymont, E.L., 2014. Persistent warmth across the Benguela upwelling system during the Pliocene epoch. *Earth and Planetary Science Letters* 386, 10–20. 10.1016/j.epsl.2013.10.041.
- Rüggeberg, A.**, **Spezzaferri, S.**, **Stalder, C.**, **Margreth, S.**, 2015. Cold-water coral reefs along the European continental margin: the role of foraminifera. In **Spezzaferri, S.**, **Stalder, C.**, **Rüggeberg, A.** (Editors). *Atlas of benthic foraminifera from cold water coral reefs. Cushman Foundation Special Publication Serie*, 44, 3-11.
- Schindlbeck, J.C., Kutterolf, S., Freundt, A., Straub, S.M., Wang, K.-L., Jegen, M., Hemming, S.R., Baxter, A.T., **Sandoval, M.I.**, 2015. The Miocene Galapagos ash layer record of Integrated Ocean Drilling Program Legs 334 and 344: Ocean-island explosive volcanism during plume-ridge interaction. *Geology* 43 (7), 599–602. 10.1130/G36645.1.
- Schneider, T. Bischoff, T. **Haug, G.H.**, 2014. Migrations and dynamics of the intertropical convergence zone, *Nature*, 513, 45-53.
- Schneider, R.**, **Schmitt, J.**, Köhler, P., **Joos, F.**, **Fischer, H.**, 2013. A reconstruction of atmospheric carbon dioxide and its stable carbon isotopic composition from the penultimate glacial maximum to the last glacial inception. *Clim. Past* 9 (6), 2507–2523. 10.5194/cp-9-2507-2013.
- Schwarzenbach, E.M.**, **Früh-Green, G.L.**, **Bernasconi, S.M.**, Alt, J.C., Plas, A., 2013. Serpentization and carbon sequestration: A study of two ancient peridotite-hosted hydrothermal systems. *Chemical Geology* 351, 115–133. 10.1016/j.chemgeo.2013.05.016.
- Spezzaferri S.**, Olsson, R.K. and Hemleben, C., submitted. Taxonomy, biostratigraphy and phylogeny of Oligocene and lower Miocene *Globigerinoides* and *Trilobatus*. *Cushman Foundation for Foraminiferal Research, Special Publication*.
- Spezzaferri, S.**, Coxall, H., Olsson, R. and Hemleben, C., submitted. Taxonomy, biostratigraphy and phylogeny of Oligocene *Globigerina*, *Globigerinella* and *Quiltyella* (new genus). *Cushman Foundation for Foraminiferal Research, Special Publication*.
- Spezzaferri, S.**, Olsson, R.K., Hemleben, C., and Wade, B., submitted. Taxonomy, biostratigraphy and phylogeny of Oligocene and lower Miocene *Globoturborotalita*. *Cushman Foundation for Foraminiferal Research, Special Publication*.
- Spezzaferri, S.**, Kucera, M., Pearson, P.N., Wade, B.S., **Rappo, S.**, Poole, C.R., Morard, R., **Stalder, C.**, Abramovich, S., 2015. Fossil and Genetic Evidence for the Polyphyletic Nature of the Planktonic Foraminifera "Globigerinoides", and Description of the New Genus *Trilobatus*. *PLoS ONE* 10 (5), e0128108. 10.1371/journal.pone.0128108.
- Spezzaferri, S.**, **Rüggeberg, A.**, **Stalder, C.** and **Margreth, S.**, 2015. Benthic foraminiferal assemblages from cold water coral ecosystems. In **Spezzaferri, S.**, **Stalder, C.**, **Rüggeberg, A.** (Editors). *Atlas of benthic foraminifera from cold water coral reefs. Cushman Foundation Special Publication Series*, 44, 20-48.
- Spezzaferri, S.**, **Rüggeberg, A.**, **Stalder, C.** and **Margreth, S.**, 2015. Systematic description and illustration of

Benthic and planktonic foraminifera from cold water coral ecosystems. In **Spezzaferri, S., Stalder, C., Rüggeberg, A.** (Editors). *Atlas of benthic foraminifera from cold water coral reefs. Cushman Foundation Special Publication Series*, 44, 249-140.

Spezzaferri, S., Ruggeberg, A., **Stalder, C.**, Margreth, S., 2013. Benthic Foraminifer Assemblages from Norwegian Cold-Water Coral Reefs. *The Journal of Foraminiferal Research* 43 (1), 21–39. 10.2113/gsjfr.43.1.21.

Stalder; C., Vertino, A., **Rüggeberg, A.**, Camozzi, O., Spangenberg, J., Van Rooij, D., **Spezzaferri, S.**, submitted. Large-scale paleoceanographic variations in the western Mediterranean Sea during the last 34,000 years: from enhanced cold-water coral growth to declining mounds. *Palaeogeography, Palaeoclimatology, Palaeoecology*.

Stalder, C., Székely-Szabolcs, F., **Kateb, A.E.**, van Rooij, D., **Spezzaferri, S.**, 2015. SCHACKOINELLA SPINA , A NEW BENTHIC FORAMINIFERAL SPECIES FROM COLD-WATER CORAL ECOSYSTEMS OF THE ALBORAN SEA AND THE GULF OF CÁDIZ. *Journal of Foraminiferal Research* 45 (4), 344–353. 10.2113/gsjfr.45.4.344.

Stalder, C., Vertino, A., Rosso, A., **Rüggeberg, A.**, Pirkenseer, C., Spangenberg, J.E., **Spezzaferri, S.**, Camozzi, O., Rappo, S., Hajdas, I., Abramovich, S., 2015. Microfossils, a Key to Unravel Cold-Water Carbonate Mound Evolution through Time: Evidence from the Eastern Alboran Sea. *PLoS ONE* 10 (10), e0140223. 10.1371/journal.pone.0140223.

Stalder, C., **Spezzaferri, S.**, **Rüggeberg, A.**, Pirkenseer, C., Gennari, G., 2014. Late Weichselian deglaciation and early Holocene development of a cold-water coral reef along the Lophavet shelf (Northern Norway) recorded by benthic foraminifera and ostracoda. *Deep Sea Research Part II: Topical Studies in Oceanography* 99, 249–269. 10.1016/j.dsr2.2013.07.009.

Strasser, M., Dugan, B., Kanagawa, K., Moore, G.F., Toczko, S., Maeda, L., 2014. Integrated Ocean Drilling Program.

Straub, M. Sigman, D.M., Ren, H., **Martinez-Garcia, A.**, **Meckler, A.N.**, Hain, M.P., **Haug, G.H.**, 2013. Changes in North Atlantic nitrogen fixation controlled by ocean circulation. *Nature*, 501, 200-204.

Suan, G., RULLEAU, L., MATTIOLI, E., SUCHÉRAS-MARX, B., ROUSSELLE, B., PITTEL, B., VINCENT, P., MARTIN, J.E., LÉNA, A., **SPANGENBERG, J.E.**, Föllmi, K.B., 2013. Palaeoenvironmental significance of Toarcian black shales and event deposits from southern Beaujolais, France. *Geol. Mag.* 150 (04), 728–742. 10.1017/S0016756812000970.

Teske, A., Biddle, J.F., **Lever, M.A.**, 2014. Genetic Evidence of Subseafloor Microbial Communities. In: *Earth and Life Processes Discovered from Subseafloor Environments - A Decade of Science Achieved by the Integrated Ocean Drilling Program (IODP)*, vol. 7. Elsevier, pp. 85–125.

Thierens, M., Browning, E., Pirlet, H., Loutre, M.-F., Dorschel, B., Huvenne, V., Titschack, J., Colin, C., **Foubert, A.**, Wheeler, A.J., 2013. Cold-water coral carbonate mounds as unique palaeo-archives: the Plio-Pleistocene Challenger Mound record (NE Atlantic). *Quaternary Science Reviews* 73, 14–30. 10.1016/j.quascirev.2013.05.006.

Torti, A., **Lever, M.A.**, Jørgensen, B.B., 2015. Origin, dynamics, and implications of extracellular DNA pools in marine sediments. *Marine Genomics* 24, 185–196. 10.1016/j.margen.2015.08.007.

Tsuji, T., Ashi, J., **Strasser, M.**, Kimura, G., 2015. Identification of the static backstop and its influence on the evolution of the accretionary prism in the Nankai Trough. *Earth and Planetary Science Letters* 431, 15–25. 10.1016/j.epsl.2015.09.011.

Usman, M.O., Masago, H., **Winkler, W.**, **Strasser, M.**, 2014. Mid-Quaternary decoupling of sediment routing in the Nankai Forearc revealed by provenance analysis of turbiditic sands. *Int J Earth Sci (Geol Rundsch)* 103 (4), 1141–1161. 10.1007/s00531-014-1011-z.

Vertino, A., **Spezzaferri, S.**, Rüggeberg, A., Stalder, C. Wheeler, A. and the Eurofleets CWC-Moira cruise scientific party, 2015. A brief overview on cold-water coral ecosystems and facies. In **Spezzaferri, S.**, **Stalder, C.** Rüggeberg, A. (Editors). Atlas of benthic foraminifera from cold water coral reefs. *Cushman Foundation Special Publication Series*, 44, 12-19.

WARTHMANN, R.J., Camoin, G., **McKENZIE, J.A.**, **VASCONCELOS, C.**, 2015. Geomicrobiology of carbonate microbialites in the Tahiti reef. Geological Society, London, Special Publications 418 (1), 287–300. 10.1144/SP418.8.

WESTERMANN, S., **VANCE, D.**, Cameron, V., **ARCHER, C.**, Robinson, S.A., 2014. Heterogeneous oxygenation states in the Atlantic and Tethys oceans during Oceanic Anoxic Event 2. Earth and Planetary Science Letters 404, 178–189. 10.1016/j.epsl.2014.07.018.

WESTERMANN, S., Duchamp-Alphonse, S., Fiet, N., **FLEITMANN, D.**, Matera, V., **ADATTE, T.**, **FÖLLMI, K.B.**, 2013. Paleoenvironmental changes during the Valanginian: New insights from variations in phosphorus contents and bulk- and clay mineralogies in the western Tethys. Palaeogeography, Palaeoclimatology, Palaeoecology 392, 196–208. 10.1016/j.palaeo.2013.09.017.

WESTERMANN, S., Stein, M., Matera, V., Fiet, N., **FLEITMANN, D.**, **ADATTE, T.**, **FÖLLMI, K.B.**, 2013. Rapid changes in the redox conditions of the western Tethys Ocean during the early Aptian oceanic anoxic event. Geochimica et Cosmochimica Acta 121, 467–486. 10.1016/j.gca.2013.07.023.

WETZEL, F., **SOUZA, G.F. DE REYNOLDS, B.C.**, 2014. What controls silicon isotope fractionation during dissolution of diatom opal? Geochimica et Cosmochimica Acta 131, 128–137. 10.1016/j.gca.2014.01.028.

Zakharov, Y.D., Baraboshkin, E.Y., **Weissert, H.**, Michailova, I.A., Smyshlyayeva, O.P., Safronov, P.P., 2013. Late Barremian–early Aptian climate of the northern middle latitudes: Stable isotope evidence from bivalve and cephalopod molluscs of the Russian Platform. Cretaceous Research 44, 183–201. 10.1016/j.cretres.2013.04.007.