



Poster session 3: Biogeochemical Cycles, Biota and Evolution

Monday 29 August from 13:30-16:30

P-299 - New Constraints on the Marine Sulfur Cycle Through the Phanerozoic

Jess Adkins

P-300 - Tempo and Mode of environmental perturbations in the deep sea after the Cretaceous/Paleogene impact

Laia Alegret, Ellen Thomas

P-301 - Morphological recognition of *Globigerinoides ruber* morphotypes in the eastern Mediterranean Sea and their paleoenvironmental implications

Assimina Antonarakou, Kontakiotis, G., Mortyn, P.G., Drinia, H., Zarkogiannis, S.

P-302 - Declining sensitivity of the carbonate compensation depth to sea level during the Cenozoic

David Armstrong McKay, Toby Tyrrell, Paul A. Wilson

P-303 - Palaeogeographic distribution of deep-sea benthic foraminifera during the early Eocene

Gabriela de Jesus Arrequin Rodriguez, Ellen Thomas, Laia Alegret

P-304 - Global surface ocean acidification during the PETM

Tali Babila, Donald E. Penman, Bärbel Hönlisch, D. Clay Kelly, Timothy J. Bralower, Yair Rosenthal, James C. Zachos

P-305 - Climate change and carbon-cycling during the latest Cretaceous–Early Paleogene; towards a new reference, orbital-resolution stable isotope record from the South Atlantic

James Barnett, Kate Littler, Dick Kroon, Melanie Leng, Ursula Röhl, Thomas Westerhold, James Zachos

P-306 - Marine emissions of N₂O during the last deglaciation

Gianna Battaglia, Fortunat Joos, Jochen Schmitt, Hubertus Fischer

P-307 - Two thousand year changes of coccolithophores calcification and assemblage composition related to the dynamics ENSO/PDO in the Californian margin

Luc Beaufort, Michael Grelaud

P-308 - A new Albian to Turonian sediment archive from the Atlantic Tarfaya-Laayoune Basin, Morocco

Sebastian Beil, Wolfgang Kuhnt, Ann Holbourn, Mohamed Aquit

P-309 - Calcareous nannofossils reveal new insights on Eocene-Oligocene cooling

Manuela Bordiga, Jorijntje Henderiks, Steven Bohaty, Giuliana Villa



P-310 - Climate and environmental factors controlling coccolithophores in the NW Pacific during the Middle Pleistocene Transition

Manuela Bordiga, Claudia Lupi, Roberto Sacchi, Miriam Cobianchi

P-311 - Contribution from the ocean and terrestrial biosphere on past interglacials CO₂ concentration

Nathaelle Bouttes, Didier Swingedouw, Xavier Crosta, Maria F. Sanchez Goñi, Didier M. Roche, Aline Govin, Natalia Vazquez Riveiros

P-312 - Tracking movement of the westerly jet and subarctic front at the Shatsky Rise using biogenic and detrital sediments

Louisa Bradtmiller, Jeffrey Perala-Dewey, David McGee, Heather L. Ford

P-313 - Multivariate climate change driving the evolution of two species of planktonic foraminifera during the intensification of Northern Hemisphere glaciation

Anieke Brombacher, Paul A. Wilson, Ian Bailey, Thomas H.G. Ezard

P-314 - Ocean productivity and temperature across the subtropical front, south of New Zealand, over the last deglaciation

Eva Calvo, Lucia Quirós, Helen Bostock, Stefan Schouten, Helen Neil, Carles Pelejero

P-315 - Changes in the global burial rate of carbon in marine sediments and atmospheric CO₂ variations over the last glacial cycle

Olivier Cartapanis, Daniele Bianchi, Samuel L. Jaccard, Eric D. Galbraith

P-316 - Tropical Atlantic climate evolution during the Eocene and Middle Eocene Climatic Optimum (MECO)

Marqot Cramwinckel, Ilja J. Kocken, Robin van der Ploeg, Claudia Agnini, Peter K. Bijl, Francien Peterse, Matthew Huber, Steven M. Bohaty, Stefan Schouten, Appy Sluijs

P-317 - Glacial-interglacial CO₂ in Southern Ocean surface waters

Jessica Crumpton-Banks, James Rae, Rosanna Greenop, Andrea Burke, Kathryn Moore, Dan Nita

P-318 - A palynological and micropaleontological study of sapropels S1, S3, S4 and S5

Michelle de Groot, Francesca Sangiorgi, Timme Donders, Karin Zwiep, Alessandra Negri, Caterina Morigi, Joerg Keller

P-319 - Remarkable stability at the seafloor through an early Paleocene hyperthermal pair of the Latest Danian Event

Arne Deprez, Sofie Jehle, André Bornemann, Robert P. Speijer

P-320 - A North Atlantic integrated microfossil record of the Paleocene-Eocene Thermal Maximum

Simon D'haenens, Robert P. Speijer



P-321 - Disentangling deglacial the biogeochemical nutrient cycle off Peru based on bulk sediment, diatom-bound $\delta^{15}\text{N}$ and $\delta^{30}\text{Si}$ records

Kristin Doering, Rebecca S. Robinson, Philippe Martinez, Claudia Ehlert, Martin Frank, Ralph Schneider

P-322 - Testing photosymbiont bleaching in planktic foraminifera across the Early Eocene Climatic Optimum

Roberta D'Onofrio, Valeria Luciani, Bridget Wade

P-323 - Change from dominant dextral to sinistral planktic foraminiferal *Morozovella* during the Early Eocene Climatic Optimum

Roberta D'Onofrio, Valeria Luciani, Bridget Wade

P-324 - Coccolithophore productivity in the Southern Ocean and CO_2 concentrations in the ocean-atmosphere system since the LGM: is there a link?

Stephanie Duchamp-Alphonse, Guillaume Rouaud, Giuseppe Siani, Luc Beaufort, Yves Gally, Elisabeth Michel

P-325 - Reconstructing the biological pump in the Southern Ocean across the last deglaciation

Matthew Dumont, Raja Ganeshram, Laetitia Pichevin, Robert Turnewitsch

P-326 - Sediment cores reveal low-oxygen intermediate waters in the southwest Pacific during the Last Glacial Maximum

Axel Durand, Zanna Chase, Taryn Noble, Ashley Townsend, Helen Bostock, Helen Neil, Samuel Jaccard

P-327 - On the impact of climatic variables on disequilibrium DIC

Sarah Eggleston, Eric Galbraith

P-328 - Use of High-throughput imaging to extract morphometrics of recent planktonic foraminifera communities from the North Atlantic

Leanne Elder, Allison Hsiang, Sara Kahanomoku, Kaylea Nelson, Luke Strotz, Pincelli Hull

P-329 - Evaluating the strength and temperature variability of the North Atlantic current for the second half of the last millennium using an *Arctica islandica*-derived increment series

Juan Estrella-Martínez, Paul G. Butler, James Scourse, Christopher Richardson, Bernd R. Schöne

P-330 - Planktonic foraminiferal evolution and climate change in the Late Cretaceous

Francesca Falzoni, Maria Rose Petrizzo, Leon J. Clarke, Kenneth G. MacLeod, Hugh C. Jenkyns

P-331 - Volcanic ash fertilization, increased export productivity, and increased organic carbon burial in sediments from the Caribbean (ODP Site 999) around the Middle Miocene Climate Transition

Kristina Faul, Caroline Lear, Hazel Simpson, Emily Dirksen, Lisann Zentner



P-332 - Constraints on Ice Age abyssal Atlantic Ocean circulation and carbon dynamics inferred from a sedimentary depth transect

Alan Foreman, Christopher D Charles, James W. B. Rae, Jess F Adkins, Niall C Slowey

P-333 - Circulation and CO₂ in the glacial ocean

James Rae, Alan Foreman, Jess Adkins, Chris Charles, Ian Eisenman, Will Gray, Ben Taylor, Robb Wills

P-334 - On the evolution of the ocean Si cycle and the use of $\delta^{30}\text{Si}$ as a paleoceanographic proxy

Patrick Frings, Guillaume Fontorbe, Daniel J. Conley

P-335 - Millennial-scale carbon sequestration changes in the deep South Atlantic linked to atmospheric CO₂ variability during the last two glacial periods

Julia Gottschalk, Luke C. Skinner, Samuel L. Jaccard, Claire Waelbroeck

P-336 - Export production and remineralization over Eocene hyperthermals at ODP Site 1263, Walvis Ridge, Southeast Atlantic

Elizabeth Griffith, Angela Lewis, Ellen Thomas, Arne Winguth

P-337 - A large and mostly volcanic carbon source drove the Paleocene-Eocene Thermal Maximum

Marcus Gutjahr, Andy Ridgwell, Philip F. Sexton, Eleni Anagnostou, Paul N. Pearson, Heiko Pälike, Richard D. Norris, Ellen Thomas, Gavin L. Foster

P-338 - Evolution of surface and deep water conditions in the Antarctic Southern Ocean across the MPT

Adam Hasenfratz, Samuel L. Jaccard, Alfredo Martínez-García, Derek Vance, David A. Hodell, Stefano Bernasconi, Helga (Kikki) F. Kleiven, Gerald H. Haug

P-339 - Deep Atlantic Carbonate Chemistry Across the Mid-Pleistocene Transition

Laura Haynes, Bärbel Hönlisch, Jesse R. Farmer, Heather L. Ford, Maayan Yehudai, Maureen Raymo, Steven L. Goldstein, Leopoldo D. Pena, Torsten Bickert

P-340 - The Gibraltar cold-water coral see-saw driven by Late Quaternary environmental variability

Dierk Hebbeln, Thomas Krenkel, Andrea Schröder-Ritzrau, Norbert Frank, Claudia Wienberg

P-341 - Particle ballasting effects on the biological pump during glacial-interglacial transitions: an estimate using MPIOM/HAMOCC

Malte Heinemann, Joachim Segschneider, Birgit Schneider

P-342 - Ocean carbon cycle dynamics during the LGM in the MPI-Earth System Model

Mathias Heinze, Tatiana Ilyina

P-343 - Deglacial diatom productivity in the North East Atlantic driven by an enhanced supply of silicic acid

Katharine Hendry, Jennifer Pike, Xun Gong, Gregor Knorr, Ian Hall



P-344 - New insight on the north Pacific Oxygen Minimum Zone using I/Ca ratio record from multiple benthic foraminiferal species: Applying a new quantitative approach to an old question
Ingrid Hendy, Meghan Taylor

P-345 - How strange was the Strangelove Ocean?
Michael Henehan, Shuang Zhang, Noah J. Planavsky, Ellen Thomas, Brian T. Huber, Pincelli M. Hull

P-346 - Variability in the East Equatorial Pacific paleoproductivity during the last 700 ka
Iván Hernández-Almeida, Paula Diz, Patricia Bernárdez, Marta Pérez-Arlucea

P-347 - Evidence for a Biological Pump Driver of Atmospheric CO₂ Rise during Heinrich Stadial 1
Jennifer Hertzberg, David C. Lund, Andreas Schmittner, Alexandra L. Skrivaneck

P-348 - North Atlantic planktic foraminifera turnover and upper ocean structure during the Eocene-Oligocene transition: insights from the Newfoundland margin
Max Holmström, Steven Bohaty, Paul Wilson, Helen Coxall

P-349 - Eastern tropical Pacific intermediate and surface water oxygenation over the last 40,000 years.
Babette Hoogakker, Zunli Lu, Ros, Rickaby, Luke, Jones, Ziaoli, Zhou

P-350 - Oxygen depletion recorded in upper waters of the glacial Southern Ocean
Zunli Lu, Babette A.A. Hoogakker, Claus-Dieter Hillenbrand, Xiaoli Zhou, Ellen Thomas, Kristina M. Gutchess, Wanyi Lu, Luke Jones, Rosalind E.M. Rickaby

P-351 - Paleocene-Eocene paleoenvironmental changes in Southeast Australia: marine and terrestrial palynological and organic geochemical results from the Latrobe-1 well.
Emiel Huurdeman, J. Frieling, F. Peterse, T.H. Donders, S.M. Bohaty, J. Pross, S. Gallagher, G. Holdgate, P.K. Bijl

P-352 - Reconstructing Southern Indian Ocean glacial-interglacial changes in the strength of the biological pump
Samuel Jaccard, Lena Thöle, Samuel L. Jaccard, Jörg A. Lippold, Alain Mazaud, Elisabeth Michel

P-353 - Precession insolation-driven hydrological and carbon cycles of the tropical climate
Zhimin Jian, Haowen Dang, Tingting Wang, Haiyan Jin, Xingxing Wang, Catherine Kissel, Franck Bassinot

P-354 - Global response of the Calcareous Nannoplankton to Climatic Change across the Eocene Oligocene Transition
Tom Dunkley Jones, Cherry Newsam, Katy Prentice, Nursufiah Sulaiman, Jackie Lees, Clara Bolton, Heather Stoll, Paul Bown



P-355 - Response of the biological carbon pump to long-term climatic warming and abrupt warming events through the early Eocene

Allison L. Keller, Sandra Kirtland Turner, Donald Penman, Philip Sexton, Richard Norris

P-356 - Exploring the controls on glacial-interglacial variations in atmospheric CO₂ in an observationally-constrained ocean circulation-biogeochemical model

Samar Khatiwala, Juan Muglia, Andreas Schmittner

P-357 - Quantifying rates of plankton evolution immediately following the Cretaceous/Paleogene mass extinction event (IODP Exp.342 Site U1403, NE Atlantic)

Hojung Kim, Paul Bown, Samantha Gibbs

P-358 - Modeling of glacial ocean carbon cycle by focusing on the role of the Southern Ocean and carbonate compensation process

Hidetaka Kobayashi, Akira Oka

P-359 - The origin of the 405-kyr and 2.4 Myr long-term eccentricity components in Cenozoic carbon isotope records

Ilja Kocken, Margot J. Cramwinckel, Richard E. Zeebe, Jack J. Middelburg, Appy Sluijs

P-360 - Particle fluxes in the tropical Atlantic Ocean at 12°N

Laura Korte, Michèlle van der Does, Chris I. Munday, Stefan Schouten, Geert-Jan A. Brummer, Jan-Berend W. Stuut

P-361 - The Amazon River at sea: combining terrestrial and marine proxies to determine the transcontinental Amazon onset and its influence on the marine environment

Emmy Lammertsma, R.G. Bogota-Angel, F. Chemale Jr., S.R. Troelstra, M. Romero-Baez, F. Sangiorgi, S.G.A. Flantua, R. Dino, E. Dantas, D. do Carmo, C. Hoorn

P-362 - Tore Pool: a singular sediment trap for paleoproductivity in the North Atlantic gyre

Susana Lebreiro, Laura Antón, Silvia Nave, Catherine Kissel

P-363 - Disentangling Eocene/Oligocene ocean changes on the Western North Atlantic Margin using three different Micropaleontological groups and foraminiferal stable isotopes (DSDP Site 612)

Alba Legarda-Lisarrri, Manuela Bordiga, Nicoletta Mancin, Helen Coxall, Jorijntje Henderiks, Ignacio Arenillas, Eustoquio Molina

P-364 - Intermediate and Deep Water Mass Characteristics of the North Pacific during the Holocene, Last Glacial Maximum and Deglaciation

Lester Lembke-Jene, Ralf Tiedemann, Dirk Nürnberg, Xun Gong, Lars Max, Jianjun Zou, Xuefa Shi, Gerrit Lohmann



P-365 - Variations of the Planktonic Foraminiferal Shell Weight and Size in Area off Southwest Taiwan Waters: Results of Sediment Trap and Downcore Record

Hui-Ling Lin, Tai-Chun Lin, Hua-Sheng Liang, Bo-Ren Chang

P-366 - Coccolithophore responses to environmental variability in the South China Sea: species composition and calcite content

Chuanlian Liu, Xiaobo Jin, Alex J Poulton, Minhan Dai

P-367 - Temperature-Dependent Ocean-Atmosphere Equilibration of Carbon Isotopes in Surface and Intermediate Waters over the Deglaciation

Jean Lynch-Stieglitz, Matthew Schmidt

P-368 - Coupling MEDUSA Sediment model to iLOVECLIM (v1.1 β) Earth system model

Santiago Moreira Martinez, Didier M. Roche, Guy Munhoven, Claire Waelbroeck

P-369 - Iron fertilization of the Subantarctic Pacific during the last ice age

Alfredo Martinez-Garcia, Daniel M. Sigman, Frank Lamy, Anja Studer, Ralf Tiedemann, Gerald H. Haug

P-370 - Poorly ventilated deep ocean at the Last Glacial Maximum inferred from oceanic $\delta^{13}C$

Laurie Menviel, Jimin Yu, Fortunat Joos, Anne Mouchet, Katrin J. Meissner, Matthew H. England

P-371 - Using Marine Records to Study Terrestrial Burning: A charcoal record for the last glacial cycle from offshore Northwest Africa

Harriet Moore, Anya J Crocker, Claire M Belcher, Paul A Wilson, Colin P Osborne, David J Beetling

P-372 - Morphological plasticity and coiling ratio of the planktic foraminifer *Muricohedbergella delrioensis* across the mid-Cenomanian

Kazuyoshi Moriya, Paul A. Wilson, Oliver Friedrich, Jochen Erbacher, Eri Takahashi

P-373 - Ocean Circulation and Iron and Carbon Cycles during the Last Glacial Maximum

Juan Muglia, Andreas Schmittner

P-374 - Elevated Fish Production and Community Change during Ocean Anoxia

Richard Norris, Kimberly McComas

P-375 - 'Background' environmental change versus abrupt perturbation: significance for calcareous nannoplankton populations and their biogeochemical environment.

Sarah O'Dea, Samantha J. Gibbs, Paul R. Bown, Andy Ridgwell

P-376 - A foraminifera-bound nitrogen isotope record over the last glacial cycles from the equatorial Atlantic

Lukas Oesch, Anja Studer, Alfredo Martinez-Garcia, Haojia Ren, Daniel Sigman, Gerald Haug



P-377 - On the origin and implications of three rapid methane release events during the last deglaciation

Anne Willem Omta, Rosalind E.M. Rickaby, Jonathan M. Lauderdale, Ian R. Hall, Michael J. Follows

P-378 - Late Pliocene onset of glacial-interglacial carbon cycle variations in the North Atlantic

Rich Pancost, B. David A. Naafs

P-379 - The Atlantic Meridional Overturning Circulation during the Last Glacial Maximum: shallower or deeper, weaker or stronger?

André Paul, Takasumi Kurahashi-Nakamura, Martin Losch, Stefan Mulitza, Rike Völpel

P-380 - The effects of weathering and circulation on the marine silica cycle during Eocene hyperthermals

Donald Penman, Andy Ridgwell

P-381 - Benthic $\delta^{13}\text{C}$ stacks: Metrics for deglacial changes in deep ocean carbon storage and the terrestrial biosphere

Carlye Peterson, Lorraine Lisiecki

P-382 - The Eastern Equatorial Pacific CO_2 source during the last deglaciation

Laetitia Pichevin, Raja S. Ganeshram, Aleksey Y. Sadekov

P-383 - Constraints on the changes in Late Ordovician–early Silurian oceanic redox state through palaeoceanographic modelling

Alexandre Pohl, Yannick Donnadieu, Guillaume Le Hir, Maura Brunetti, David Ferreira

P-384 - The hinterland of the Atlantic Coastal Plain: climate and vegetation development during the late Mid-Miocene Climatic Optimum (IODP Expedition 313)

Sabine Prader, Ulrich Kotthoff, Francine McCarthy, David Greenwood

P-385 - Phytoplankton response to changes in the chemistry of Eastern Equatorial Pacific waters during Termination II

Lucía Quirós Collazos, Eva Calvo, Stefan Schouten, Leopoldo D. Pena, Isabel Cacho, Carles Pelejero

P-386 - Assessing anoxia during the PETM using foraminiferal Cr isotopes and climate simulations

Serginio Remmelzwaal, Ian Parkinson, Daniela Schmidt, Fanny Monteiro

P-387 - Quantifying the Cenozoic marine diatom deposition history

Johan Renaudie

P-388 - Having your paleo (model) cake and eating it

Andy Ridgwell, Jamie Wilson



P-389 - Alternating influence of North Pacific Intermediate Water versus Southern Ocean Intermediate Waters on equatorial sub-thermocline during the past 240 ka.

Nadine Rippert, Lars Max, Ralf Tiedemann, Isabel Cacho, Patricia Povea, Andreas Mackensen

P-390 - Regional scale evaluation of export production and nutrient supply to the Eastern Equatorial Pacific of the last 1 Ma

Rebecca Robinson, Colin Jones, Johan Etourneau, Philippe Martinez

P-391 - Fire in the Pliocene: a Record from the Southwest Pacific Ocean

Antoni Rosell-Mele, A. Rosell-Mele, N. Moraleda, Kira T. Lawrence, Laura C. Peterson

P-392 - Reconstructing the biogeochemistry of the European epicontinental shelf sea during the Toarcian Oceanic Anoxic Event

Itzel Ruvalcaba, Niels A.G.M. van Helmond, Anthony S. Cohen, Angela L. Coe, Yannick Donnadieu, Caroline P. Slomp

P-393 - Eastern Mediterranean deep-water ventilation history and Holocene sapropel formation

Gerhard Schmiedl, Rosina Grimm, Uwe Mikolajewicz, Katharina Müller-Navarra, Fanny Adloff, Katharine M. Grant, Martin Ziegler, Lucas J. Lourens, Kay Emeis

P-394 - Isotopic Constraints on the Glacial Ocean's Circulation and Soft-Tissue Pump

Andreas Schmittner, Christopher J. Somes

P-395 - Decoupling of anammox and denitrification in the Eastern Tropical South Pacific during glacial terminations

Julio Sepulveda, Magaly Caniupán, Gema Martínez-Méndez, Frank Lamy, Dierk Hebbeln, Carina B. Lange, Silvio Pantoja, Roger E. Summons

P-396 - Weakening of spatial oceanographic gradients during orbital eccentricity 'nodes' increases plankton susceptibility to extinction

Philip Sexton, Richard Norris, Maureen Raymo

P-397 - Centennial to millennial-scale hydrological changes in the southern Adriatic Sea since the Late Glacial period: relationships with the Mediterranean thermohaline circulation.

Giuseppe Siani, Nejib Kallel, Martine Paterne, Gulay Isguder, Latifa Essallami, Stéphanie Duchamp-Alphonse, Christophe Colin

P-398 - Ecosystem evolution in a greenhouse world: fish evolution and community structure is decoupled from fish production in the Paleogene

Elizabeth Sibert, Richard Norris

P-399 - Late Circulation Response in the Deep layers of the South Atlantic and Pacific Oceans across the Last Glacial Termination

Elisabeth Sikes, Katherine Allen, David Lund



P-400 - Ingredients in the LGM 'CO₂ Stew': new constraints on soft-tissue carbon pump efficiency and carbonate compensation during the last glacial period

Luke Skinner, Maria de la Fuente, Aleksey Sadekov, Adam Scriver

P-401 - The signature of the Middle Eocene Climatic Optimum (MECO) in a hemipelagic, upper bathyal North Sea Basin sequence (the Kysing -4 borehole, Danmark)

Kasia K. Sliwinska, Claus Heilmann-Clausen, Stefan Schouten, Erik Thomsen, Stefan Van Simaey

P-402 - Controls on the onset and termination of hypoxia in the Baltic Sea during the Holocene Thermal Maximum and the Medieval Climate Anomaly

Caroline Slomp, Nina M. Papadomanolaki, Nikki Dijkstra, Niels A.G.M. van Helmond, Mathilde Hagens, Thorsten Bauersachs, Francesca Sangiorgi, Ulrich Kotthoff

P-403 - Constraints on the strength of the biological carbon pump from elevated marine nutrient inventories during the Last Glacial Maximum from nitrogen isotopes and dissolved oxygen proxy data

Christopher Somes, Andreas Schmittner, Juan Muglia, Andreas Oschlies

P-404 - Early Eocene climate variability in the North Sea Basin: a Belgian perspective

Peter Stassen, Robert P. Speijer, Hemmo A. Abels, Caroline H. Lear, Etienne Steurbaut

P-405 - Glacial Sources of Dust to the Pacific Sector of the Southern Ocean

Torben Struve, Marc Wengler, Walter Geibert, Frank Lamy, Gisela Winckler, Katharina Pahnke

P-406 - A rise in Southern Ocean overturning over the Holocene

Anja Studer, Daniel M. Sigman, Alfredo Martinez-Garcia, Lena M. Thöle, Elisabeth Michel, Samuel L. Jaccard, Jörg Lippold, Alain Mazaud, Xingchen T. Wang, Gerald H. Haug

P-407 - DUSTTRAFFIC: Transatlantic transport and deposition of Saharan dust

Jan-Berend Stuut, Catarina Guerreiro, Chris Munday, Geert-Jan Brummer, Laura Korte, Michelle van der Does

P-408 - Biogeochemical cycling in the Bering Sea over the onset of major Northern Hemisphere Glaciation

George Swann, Andrea M. Snelling, Jennifer Pike

P-409 - Links between ocean deoxygenation and phytoplankton evolution in an Early Jurassic greenhouse world

Nikki Szerkowski, Bas van de Schootbrugge, Sander Houben

P-410 - Pteropods in the New Jersey Paleocene-Eocene Thermal Maximum (PETM)

Ellen Thomas, Jocelyn A. Sessa, Arie W. Janssen



P-411 - Foraminifera in Silico

Ellen Thomas, Shaun Mahmood, Kelsey Barnhill, Melanie Hopkins, Henry Towbin, Bushra Hussaini, Ruth O'Leary, Neil Landman

P-412 - Eastern Equatorial Pacific Deep-water Carbonate Compensation and Oxygenation Over the Last 25,000 Years

Natalie Umling, Robert Thunell

P-413 - Simulation of the last sapropel event using a high-resolution oceanic model : hosing experiments, long time-scale simulations and data comparison.

Tristan Vadsaria, Gilles Ramstein, Laurent Li, Jean-Claude Dutay, Kazuyo Tachikawa, Giuseppe Siani

P-414 - Inside the head of Miocene whales: Using dinoflagellate cysts to constrain the age of marine megafauna fossil accumulations in the Westerscheldt, the Netherlands

Bas van de Schootbrugge, Reina Veenhof, Klaas Post, Jelle Reumer

P-415 - Grain sizes of trans-Atlantic Saharan dust: Atmospheric samples in relation to marine deposits

Michelle van der Does, Laura F. Korte, Chris I. Munday, Geert-Jan A. Brummer, Jan-Berend W. Stuut

P-416 - A reduced continental weathering feedback during the Middle Eocene Climatic Optimum (MECO)?

Robin van der Ploeg, David Selby, Margot J. Cramwinckel, Steven M. Bohaty, Jack J. Middelburg, Appy Sluijs

P-417 - Reconstructing the history of the Baltic Sea: Geochemical characterization of sediments capturing the Holocene in the Little Belt, Denmark

Niels van Helmond, Caroline Slomp

P-418 - High productivity in the equatorial Pacific Ocean leads to giant Oligocene planktonic foraminifera

Bridget Wade, Christopher Poole, Jamie Boyd

P-419 - Deep sea coral evidence for lower surface nitrate concentrations across the Antarctic Circumpolar Current during the last ice age

Xingchen Wang, Maria G. Prokopenko, Daniel M. Sigman, Jess F. Adkins, Laura F. Robinson, Sophia K. Hines, Junyi Chai, Gerald H. Haug

P-420 - Redox-based reconstruction of the Oxygen Minimum Zone for the past 250 years in the Santa Barbara Basin

Yi Wang, Ingrid Hendy, Tiffany Napier



P-421 - Reconstruction of South Pacific dust fluxes and dust provenance areas: insights from 230Thxs, isotopic and REE data

Marc Wengler, Frank Lamy, Walter Geibert, Katharina Pahnke, Gerhard Kuhn, Rainer Gersonde, Ralf Tiedemann

P-422 - Sensitivity of atmospheric CO₂ and the marine carbon cycle to the Biological Pump

Jamie Wilson, Sarah E. Greene

P-423 - Early-to-middle Eocene biogenic silica deposition and diatom assemblage shifts at Blake Nose (ODP Site 1051): response to reorganisation of North Atlantic deep-water circulation?

Jakub Witkowski, Steven M. Bohaty, Julita Tomkowiak, David M. Harwood

P-424 - Latest Maastrichtian climatic and environmental change in the Southern Hemisphere

Lineke Woelders, Johan Vellekoop, Jan Smit, Silvio Casadio, Dick Kroon, Jaume Dinarès-Turell, Mercedes Prámparo, Francien Peterse, Henk Brinkhuis, Robert P. Speijer

P-425 - Variations of the Antarctic Circumpolar Current and environmental conditions in the Kerguelen Islands region, Southern Ocean, during the last 50 kyrs

Crosta Xavier, Alain Mazaud, Elisabeth Michel, Samuel Jaccard, Julien Crespin, Jessica Wilks, Lena Thöle, Leanne Armand

P-426 - Impact of internal variability on simulations of the eastern equatorial Pacific oxygen minimum zone

Xu Xu, Birgit Schneider, Joachim Segschneider

P-427 - Possible sedimentation mechanisms of calcareous nannofossils in the late Miocene deep-sea sediments of the South China Sea and their paleoenvironmental implications

Xianquan Zhou, Chuanlian Liu, Hongrui Zhang