

Monday, September 25th

	HS 2010	HS 1010	GW2 B2880	GW2 B2890	GW2 B2900	SFG 1010	SFG 1040	SFG 2010	SFG 2040
14:00 - 15:30	10.2 Methane- and methane-hydrate-related processes at margins around the Arctic Ocean Bohrmann, G., Panieri, G., Berndt, C., Bünz, S.	3.3 Geomicrobiology - from understanding processes in ancient and modern environments to industrial applications Kappler, A., Peckmann, J.	8.2 Structure, properties, and applications of crystalline materials Fischer, M.	2.7 Rates and time-scales of magmatic and metamorphic processes Chakraborty, S., Marschall, H., Stracke, A.	2.1 Mass transfers in oceanic spreading centers Beier, C., Koepke, J., Devey, C., Bach, W.	7.1 Young sedimentologists Heimhofer, U., Spiske, M.	1.5 High latitude geodynamic and environmental evolution Lisker, F., Spiegel, C.	3.1 Stable isotope proxies in space and time: Processes, preservation and potential Böttcher, M., Hippler, D.	10.1 Applications in 3D geological modelling Lehné, R., Müller, C.
14:00	Keynote: Gas Hydrate Dissociation at the Continental Margin off Svalbard Induced by Glacial Rebound rather than Global Warming Wallmann, K., Riedel, M., Hong, W.-L., Patton, H., Pape, T., Hsu, C.W., Schmidt, C., Berndt, C., Bohrmann, G.	Keynote: Green rust in the Precambrian Fe cycle: Iron formation genesis and implications for trace element cycles Halevy, I., Schuster, E., Alesker, M., Popovitz-Biro, R., Feldman, Y.	Keynote: High-pressure nano-confinement in zeolites: innovative materials from the Mineral Science know-how Quartieri, S.	A multicomponent diffusion model and experimental calibration of diffusive fractionation of Fe and Mg isotopes in olivine Dohmen, R., Bigge, N., Oeser, M., Weyer, S.	Thermal death of depleted melts biases the geochemical record of oceanic magmatism Neave, D., Namur, O., Shorttle, O., Holtz, F.	Soft-sediment deformation structures (SSDS) of Late Pleistocene sediments on the islands Hiddensee and Rügen (NE Germany) Baldus, T., Schirra, C., Hoffmann, G.	Polyphase structural evolution of northern Victoria Land (Antarctica) in the light of Gondwana break-up and the development of the Australia-New Zealand-Antarctica plate fragments (ANZAPF) Läufer, A., Crispini, L., Lisker, F., Ruppel, A.	Keynote: Tsunami sedimentary deposit of Crete records climate during the Minoan Warming Period (≈3,350 years BP) Lécuyer, C.	Keynote: Challenges and approaches in 3D geological modeling of the Glückstadt-Graben Hese, F., Schaller, A., Lademann, K., Thomsen, C., Liebsch-Dörschner, T.
14:15				Development and application of a new in situ femtosecond-LA-MC-ICP-MS method for Li isotope measurements Steinmann, L.K., Oeser, M., Horn, I., Weyer, S.	Geodynamic constraints from glass geochemistry in the Troodos ophiolite Wölki, D., Regelous, M., Haase, K., Beier, C.	Gamma ray und in-situ X-ray fluorescence analysis of the core WW203302 from the Cubango Megafan (Namibia) Noll, M., Houben, G., Hornung, J., Hinderer, M.	From subduction to rifting: low-temperature cooling signatures along the Pacific margin of West Antarctica: Insights from apatite thermochronology Zundel, M., Spiegel, C., Lisker, F., Mehling, A.		
14:30	Correlation between tectonic stress regimes and methane seepage on the West-Svalbard margin Plaza Faverola, A., Keiding, M.	Temperature fluctuations in the Precambrian ocean could have caused alternating deposition of Fe-rich and Si-rich layers in Banded Iron Formations Schad, M., Halama, M., Konhauser, K., Kappler, A.	Structure- property relations and structural instabilities in high-temperature piezoelectric materials of the oxoborate-family RX2Z2O(BO3)3 Münchhalfen, M., Schreuer, J., Reuther, C., Götze, J.	Complex zoning in olivines of the Shiveluch volcano (Kamchatka) Gordeychik, B., Churikova, T., Simakin, A., Kronz, A., Wörner, G.	Oman Drilling Project: Crystallographic preferred orientations as indicator for lower crustal formation at fast-spreading mid-ocean ridges – The Wadi Gideah transect Mock, D., Ildefonse, B., Koepke, J., Müller, T., Garbe-Schönberg, D.	Long-term controls of sedimentary basin architecture in the Tres Cruces subbasin, Jujuy, Argentina Schmidt, W., Villalba Ulberich, J.P., Ruiz Monroy, R., Galli, C., Mutti, M.	Aerogeophysical survey over the Forster Magnetic Anomaly and its implications for revealing the tectonic evolution of central Dronning Maud Land Ruppel, A., Eagles, G., Jacobs, J., Jokat, W., Läufer, A.	A multi-isotope (H - B - C - O - Mg - S - Ca - Ba) study of a brackish-fresh water transition in a Baltic Sea sediment core Böttcher, M.E., Laphan, L., Huckriede, H., Gussone, N., Struck, U., Dellwig, O., Buhl, D., Immenhauser, A., van Zuilen, K., Pretet, C., Nägler, T., Prieto, M., Halas, S.	The first step to a 3D model of the North German Basin – The TUNB “Pilotregion” Steuer, S., von Gorne, G.
14:45	Widespread methane seepage along the continental margin off Svalbard - from Bjørnøya to Kongsfjorden Mau, S., Römer, M., Torres, M., Bussmann, I., Pape, T., Damm, E., Geprägs, P., Wintersteller, P., Hsu, C.W., Loher, M., Bohrmann, G.	Diversity-specific iron biomineralization in an Archean ocean analogue Berg, J., Duverger, A., Jézéquel, D., Duprat, E., Skouri-Panet, F., Poinso, M., Laberty-Robert, C., Miot, J.	High transparent low crystal symmetry nano-ceramics Gaida, N.A., Nishiyama, N., Schürmann, U., Giehl, C., Beer-mann, O., Masuno, A., Ohfuji, H., Bednarcik, J., Kulik, E., Holzheid, A., Irifune, T., Kienle, L.	Zoning and exsolution in alkali feldspars from Laacher see volcano (Western Germany) as an indicator of time-scales of carbonate-silicate unmixing and magma evolution prior to eruption Rout, S.S., Wörner, G.	Circulation of seawater-derived fluids beneath fast-spreading mid-ocean ridge: Insights from IODP Site 1256 Zhang, C., Koepke, J.	Facies belt vs. facies mosaic: Architecture and sedimentological heterogeneities of a carbonate ramp reservoir analogue (Middle Triassic, SW Germany) Petrovic, A., Aigner, T.	Actively evolving subglacial conduits and eskers initiate ice shelf channels at an Antarctic grounding line Drews, R., Pattyn, F., Hewitt, I., Ng, F.S.L., Berger, S., Matsuoka, K., Bergeot, N., Favier, L., Neckel, N.	δ34S composition of organosulfur compounds as paleoproxy – a case study on the isotopic variations of inorganic and organic sulfur phases across the Permian-Triassic transition Grotheer, H., Greenwood, P.F., McCulloch, M.T., Böttcher, M.E., Grice, K.	3D-Model of the subsurface in the Eastern Altmark, Saxony-Anhalt Emmerlich, S., Nachtweide, C., Malz, A.
15:00	Honouring seafloor Seepage as a crucial Key for quantifying leakage of thermogenic gas reservoirs in the Arctic Daszinnies, M., Knies, J., Plaza-Faverola, A., Sylta, Ø., Bünz, S., Valberg, A.	Stromatolitic Fe-rich biofilms thriving in the subsurface - an analogue to the cryptic microfossil Frutexitex? Heim, C., Beimforde, C., Ivarsson, M., Drake, H., Reitner, J.	First crystal structure investigations of natural mullites Lenz, S., Birkenstock, J., Fischer, L.A., Schneider, H., Fischer, R.X.	The U-Pb isotopic system of rutile: a field based study to constrain Pb diffusion in rutile from the Reynolds Range, central Australia Rösel, D., Boger, S.D., Zack, T., White, R.W.	Fluid geochemistry of cold seeps and hydrothermal vents in the Guaymas Basin, Gulf of California Hensen, C., Geilert, S., Scholz, F., Schmidt, M., Liebetrau, V., Kipfer, R., Sarkar, S., Doll, M., Galerne, C.	Evolution of the Palaeotethys in the Eastern Mediterranean: A multi-method approach to unravel the age, composition and origin of the Late Palaeozoic Konya Complex (south central Turkey) Löwen, K., Meinhold, G., Arslan, A., Güngör, T., Berndt, J.	Mantle exhumation and ocean basement formation in the Nansen Basin, Arctic Ocean Lutz, R., Franke, D., Berglar, K., Heyde, I., Schreckenberger, B., Klitzke, P., Geissler, W.	Deciphering the relationship between Molybdenum and Uranium isotope signatures in modern anoxic sediments from the Black Sea and the Cariaco Basin Brüske, A., Neubert, N., Schulte, V., Zok, D., Dellwig, O., Planavsky, N., Lyons, T., Weyer, S.	A Parameterized 3D-Structure-Model Of The State Of Bremen (Germany)- An Application For Detailed Groundwater Flow And Transport Studies Seiter, K., Panteleit, B.
15:15	Arctic megaslide at presumed rest Geissler, W., Gebhardt, C., Gross, F., Wollenburg, J., Jensen, L., Schmidt-Aursch, M., Krastel, S., Elger, J., Osti, G.	An integrated bio-engineering rehabilitation approach for abandoned gold tailings disposal sites. Schimmer, C., van Deventer, P.	Mesoscale twinning patterns in a mollusc shell: Pinctada martensii He, J., Zhao, S., Wei, Z., Bismayer, U.	Thermal history of early Proterozoic granulites from S. India: Implications for plate tectonic styles on an early hot Earth Chowdhury, P., Chakraborty, S.	Hydrothermal and (fluid-) flow related heat flow values in the Guaymas Basin, Gulf of California Doll, M., Geilert, S., Hensen, C., Villinger, H.	Current-induced erosional unconformities and calcarenite deposits of the pelagic Tafila Platform (Devonian, Morocco) Mayer, O., Hüneke, H., Gibb, A., Mehlhorn, P., Winkler, L., Fünfstück, R., Becker, T., Aboussalam, S., El Hassani, A.	Paleo-Current Activity in the Eastern Arctic Ocean - Evidence from Sediment Waves and Drifts Weigelt, E., Jokat, W.	The relation between rock weathering and plant nutrient cycles von Blanckenburg, E., Schuessler, J., Uhlig, D.	Results of a 3D facies modelling attempt in the Lower Main Plains (Frankfurt, Germany) Budde, H., Hoselmann, C., Lehné, R., Radtke, G., Heggemann, H., Hoppe, A.

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Tuesday, September 26th

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09:00 - 10:30	8.3 Economic geology of critical raw materials Lüders, V., Bau, M., Graupner, T.	3.4 Coastal depositional environments & processes Mann, T., Jennerjahn, T., Moosdorf, N., Rovere, A.	5.3 Palaeogeography through geologic time Meinhold, G., Şengör, C.	10.3 Tectonic systems Froitzheim, N., Stipp, M., Ustaszewski, K.	10.4 Advances in scientific drilling in the oceans and on the continents Röhl, U., Wonik, T., Harms, U.	4.2 Fluid-rock interactions: from mechanisms to rates – from atom to plate Plümpner, O., Vrijmoed, J., King, H., Kusebauch, C.	9.2 New developments in science communication Münder, H., Wefer, G., Hecht, L.	3.2 Going deep: Tracking life processes through time and space Reitner, J., Duda, J.-P., Heim, C.	1.3 Controlling factors of surface evolution Spiegel, C., Friedrich, A.
09:00	Keynote: The BMBF r4 Joint Research Project MinNoBeck: Resource potential of covered hydrothermal mineralizations in the North German Basin Bau, M., Kraemer, D.	Keynote: Interpreting the sedimentary record in tropical carbonate systems to reconstruct Holocene paleo-environmental change and landform evolution Kench, P.	Paleogeography and styles of rifting of the northern Gondwana shelf during Early Paleozoic: new insights from integrated detrital and magmatic zircon geochronology and structural analysis Žák, J. , Sláma, J. , Hajná, J. , Dörr, W.	Strong temporal variation in exhumation in the Olympic Mountains (USA): New results from thermochronometer data and thermo-kinematic modeling Michel, L. , Ehlers, T.A. , Glotzbach, C. , Adams, B.A. , Falkowski, S.	Keynote: Greenhouse to Icehouse Antarctic paleoclimate and ice history from George V Land and Adélie Land shelf sediments Escutia, C. , Williams, T. , De Santis, L. , O'Brien, P. , Pekar, S. , Brinkhuis, H. , Domack, E.	Keynote: Reacting porosity waves: a mechanism for fluid flow mediated by metamorphic reactions Malvoisin, B. , Podladchikov, Y. , Omlin, S.	Science Centers – dialogue platforms in science communication Münder, H.	Keynote: Tracing ancient life processes by analysing mineral coatings in deep rock fractures Drake, H. , Whitehouse, M. , Zack, T. , Roberts, N. , Heim, C. , Broman, C. , Ivarsson, M. , Siljeström, S. , Åström, M.	Sri Lanka: a prototype for the development of micro-continents? Lisker, E. , Emmel, B. , Hewawasam, T. , Schlegel, A.
09:15			Reconstruction of Early Palaeozoic Peri-Gondwana: insights from statistical analysis of the detrital zircon record Stephan, T. , Kroner, U. , Romer, R.L.	Modeling the Influence of Slab Advance on Upper Plate Deformation at Plate Corners Nettesheim, M. , Ehlers, T.A. , Whipp, D.M.			Houses of Science – interfaces between science and society Wefer, G.		How is the western Himalayan topography sustained and where is plate convergence accommodated? Thiede, R.C. , Nennewitz, M. , Dey, S. , Robert, X. , Stübner, K. , Jain, V. , Bookhagen, B. , Strecker, M.
09:30	Hydrothermal base metal sulfide and fluorite-barite mineralization in the North German Basin Nadoll, P. , Rehm, M. , Knorsch, M. , Steiner, F. , Klemm, R.	Residence times of reef-island sediments constrained by post-mortem precipitates Mann, T. , Wizemann, A. , Kench, P. , Jompa, J. , Westphal, H.	Distribution and sediment composition of two Gondwana glaciations in Ethiopia Lewin, A. , Meinhold, G. , Hinderer, M. , Dawit, E.L. , Bussert, R.	Triangle Zones von Hagke, C. , Malz, A.	Sedimentary sequences below the Ekström Ice Shelf, Dronning Maud Land, Antarctica: A pre-site survey for deep drilling (Sub-EIS-Obs) Kuhn, G. , Eisen, O. , Biskaborn, B. , Franke, D. , Fromm, T. , Gaedicke, C. , Leitchenkov, G. , Mayer, C. , Smith, E. , Tiedemann, R. , Wilhelms, F.	Fluid-rock interaction at high temperatures and pressures: thermodynamic models and data Dolejs, D.	Presenting Nature in a hands-on science center exhibition Wolff, T.	Evidence for archaean methanogenesis within in situ veins at the onshore peridotite-hosted Chimaera seeps, Turkey Zwicker, J. , Birgel, D. , Bach, W. , Richoz, S. , Gier, S. , Smrzka, D. , Schleper, C. , Rittmann, S. , Grasemann, B. , Koşun, E. , Peckmann, J.	Reconstructing the Thakkhola graben exhumation history: detrital apatite (U-Th-Sm)/He and Apatite FT from the Mustang area (central Nepal) Rosenkranz, R. , Sohi, M. , Zundel, M. , Spiegel, C.
09:45	Formation of TRS controlled MVT type Zn-Pb mineralization in Zechstein carbonate (Ca2) in the Lower Saxony Basin, Germany Sosnicka, M. , Lueders, V.	Pleistocene shorelines along the Indian Ocean coastline in Oman (Arabian Peninsula) Hoffmann, G. , Schneider, B. , Falkenroth, M. , Ermertz, A. , al Balushi, N. , Mechnich, S. , Dunai, T. , Preusser, F.	Carboniferous and Permian system boundaries in continental deposits – multidisciplinary approaches Schneider, J.W. , Scholze, F. , Lucas, S.G.	Dating Multiple Brittle Structure Generations by U-Pb SSI ages on Calcite Fibres Albert Roper, R. , Hansman, R.J. , Ring, U. , Gerdes, A.	A new seismic stratigraphy for the Plio-/Pleistocene at the Agulhas Plateau related to the variability of sediment provenance in the Indian-Atlantic Ocean gateway Gruetzner, J. , Jimenez Espejo, F.J. , Lathika, N. , Uenzelmann-Neben, G. , IODP Expedition 361 Scientists	Archean magmatic-hydrothermal fluid evolution in the Quadrilátero Ferrífero (SE Brazil) documented by B isotopes (LA MC-ICP-MS) in tourmaline Albert, C. , Lana, C. , Gerdes, A. , Schanor, M. , Narduzzi, F. , Queiroga, G.	Exhibition MeerErleben – science goes public Schmieder, F. , Pätzold, M. , Stone, J. , Strackbein, N. , Wefer, G.	Organic matter forming glass in basalt from Gia Lai, Vietnam Franz, G. , Lucassen, F. , Struck, U. , Nissen, J. , Glodny, J.	Testing monsoonal controls on bedrock river incision in the Himalaya and Eastern Tibet with a stochastic-threshold stream power model Scherler, D. , DiBiase, R. , Fisher, B. , Avouac, J.-P.
10:00	Paleo-stress field reconstruction and age determination of mineralized fractures within sedimentary rocks from the North German Basin using drill-core reorientation, hot-cathodoluminescence microscopy and radiometric geochronology Duschl, E. , Staffelbach, C. , Kley, J.	Shoreline changes interpreted from multi-temporal remote sensing data: Semarang, Indonesia Rex, M.L. , Mann, T. , Westphal, H. , Thürkow, D.	Biomarkers and their stable isotopes in Cenozoic sediments (reflecting major changes in biogeochemical cycling of C, H, S) above the Chicxulub impact crater from IODP-ICDP Expedition 364 Grice, K. , Coolen, M.J. , Freeman, K. , Lyons, S. , Rasmussen, C. , Schaefer, B. , Wang, D.	Extensional veins are no reliable indicator for hydraulic fracturing at near-lithostatic pore fluid pressures and low differential stresses Nüchter, J.-A.	IODP Exp. 366 to the Mariana forearc: blue mud from serpentinite mud volcanoes Albers, E. , Expedition 366 Scientists	Fast symplectite growth by fluid influx into metastable granulites Kriegsman, L. , Dharmapriya, P. , Malaviarachchi, S. , Moukadiri, A.	International Outreach within ECORD Prange, U. , Cotteril, C. , Maruéjol, P.	Temperature Limit of the Deep Biosphere off Muroto (T-Limit) Heuer, V. , Inagaki, F. , Morono, Y. , Hinrichs, K.-U. , Kubo, Y. , Maeda, L. , Schubotz, F. , Viehweiger, B. , and the Expedition 370 Scientists	Headwater catchment response in the Southern Pyrenees: Landscape transformation and surface process response to Late MIS 2 climate change in the Valle de la Fueva, Aragón, Spain. Stange, K.M. , Midtkandal, I. , Nystuen, J.P. , Kuss, J. , Spiegel, C.
10:15	Potential of Formation Waters in Permian and Carboniferous Stratigraphic Layers of the North German Basin as a Resource for Critical Metals Kraemer, D. , Bau, M.	Drones as low-altitude remote sensing tool in beach environments Drechsel, J. , Casella, E. , Benninghoff, M. , Winter, C. , Rovere, A.	Hiatus maps – a new tool for paleogeographic analysis of interregional unconformities on geological maps Friedrich, A.M. , Rieger, S.		Fractionation of Ca isotopes during transport and recrystallization processes in marine deep sea sediments of the Eastern Pacific Wittke, A. , Gusone, N. , Derigs, D. , Schäilling, M. , Teichert, B.	Dissolution–precipitation creep in banded iron formations – Interplay between deformation, fluid-rock interaction and mass transfer Egglseder, M. , Cruden, A. , Faivre, D.	Start early - harvest later, geoscience at school Pätzold, M.	Where geo- meets astrobiology: Tackling the origin of organic matter on early Earth Duda, J.-P. , Thiel, V. , Bach, W. , Bauer-sachs, T. , Mißbach, H. , Reinhardt, M. , Schäfer, N. , Van Kranendonk, M. , Reitner, J.	

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10:45	Plenary lecture – Todd Ehlers								
11:30	Coffee break								
11:45	Awards DGGV								
12:15	Plenary lecture – Martin van Kranendonk								
13:00	Lunch				13:15: How to get published in a top international journal Kersten, M.				
14:00 - 15:30	8.3 Economic geology of critical raw materials Lüders, V. , Bau, M. , Graupner, T.	3.4 Coastal depositional environments & processes Mann, T. , Jennerjahn, T. , Moosdorf, N. , Rovere, A.	6.2 Earth interior – mantle and core Klemme, S. , Beyer, C.	10.3 Tectonic systems Froitzheim, N. , Stipp, M. , Ustaszewski, K.	10.4 Advances in scientific drilling in the oceans and on the continents Röhl, U. , Wonik, T. , Harms, U.	4.2 Fluid-rock interactions: from mechanisms to rates – from atom to plate Plümper, O. , Vrijmoed, J. , King, H. , Kusebauch, C.	9.2 New developments in science communication Münder, H. , Wefer, G. , Hecht, L.	3.2 Going deep: Tracking life processes through time and space Reitner, J. , Duda, J.-P. , Heim, C.	1.3 Controlling factors of surface evolution Spiegel, C. , Friedrich, A.
14:00	Fluid evolution and ore formation in the Zinnwald Sn-W-Li deposit, Erzgebirge (Germany): insights from microthermometry and LA-ICP-MS of fluid inclusions Korges, M. , Weis, P. , Lüders, V. , Laurent, O.	Rapid bioerosion in a tropical upwelling setting: implications for coral reef carbonate budgets Wizemann, A. , Nandini, S. , Stuhldreier, I. , Wisshak, M. , Westphal, H. , Reymond, C.	Clinopyroxene as an indicator of mantle oxidation state: the influence of metasomatism on V/Sc ratios Woodland, A. , Uenver-Thiele, L. , Seitz, H.-M. , Altherr, R.	Structure and composition of fault zones in claystone – Constraints from microstructural and geochemical investigations Kneuker, T. , Hammer, J. , Zulauf, G.	Progress in the ICDP Oman Drilling Project Koepeke, J. , Garbe-Schönberg, D. , Müller, S. , Mock, D. , The Oman Drilling Project Science Team	Tracing mineral replacement using Raman spectroscopy and O-isotopes King, H.E. , Geisler, T.	Lehrkoffer Mineralogie für den deutschsprachigen Schulunterricht Mrosko, M. , Stalder, R. , Hecht, L. , Schmidt, B. , Schmid-Beurmann, P. , Blum-Oeste, M.	An unusual ferruginous-calcitic Frutites microbialite community from the lower Cambrian of the Flinders Ranges, South Australia Reitner, J. , Langsford, N. , Kruse, P.	Imaging and structural analysis of the Geyser field, Iceland, from underwater and drone based photogrammetry Walter, T.
14:15	High tech trace element distribution in sulfides from the Ruhr district and comparison with data from the Bergisches Land district Henning, S. , Graupner, T. , Krassmann, T. , Gäbler, H.-E. , Goldmann, S.	Numerical modelling of hydraulics and sediment dynamics around a mangrove seedling Le Minor, M. , Bartzke, G. , Huhn, K. , Gillis, L. , Helfer, V. , Zimmer, M.	The effect of water on the fluorine and chlorine partitioning behavior between olivine and silicate melt Joachim, B. , Stechern, A. , Ludwig, T. , Konzett, J. , Ruzié-Hamilton, L. , Clay, P. , Burgess, R. , Pawley, A. , Ballentine, C.J.	Feldspar microstructures in greenschist facies granitoid mylonites. A case study of pegmatites from the Austroalpine basement. Hentschel, F. , Trepmann, C.	Processes recorded in the K-Pg boundary deposit within the Chicxulub impact from IODP-ICDP Expedition 364 Gulick, S. , Morgan, J. , Hall, B. , Rae, A. , Bralower, T. , Lowery, C. , Christeson, G. , Whalen, M. , Claeys, P. , Goto, K. , Ormo, J. , Smit, J. , Sato, H. , Neal, C. , Kring, D. , Expedition 364 Science Party	RAMAN-coupled Vertical Scanning Interferometry measurements of the dissolution kinetics of zoned feldspar crystals. Lange, L. , Fischer, C. , Arvidson, R.S. , Luttge, A.	Sprechender Sand als Brücke zu den Geowissenschaften Milke, R. , Hecht, L.	Life in an iron sea: A reconstruction of Paleoproterozoic ecosystems Nettersheim, B. , Brocks, J. , Guilbaud, R. , Poulton, S.	The Seymchan Basin and the Okhotsk-North America plate boundary: why is it so hard to see what's going on here? Hindle, D. , Mackey, K.
14:30	Rare earth elements (REEs) geochemistry of the Dorreh barite deposit, Esfahan Province, Iran Ehya, F. , Mohammadi, M. , Maleki, S.	Nutrients in fresh submarine groundwater discharge in French Polynesia and an estimation of their provenance using geochemistry Haßler, K. , Kölling, M. , Moosdorf, N.	An experimental approach to investigation of the partial melting of harzburgite in a reduced, methane-rich fluid environment Matjuschkin, V. , Woodland, A. , Yaxley, G.	Subduction zone processes: Microstructural record from the exhumation of the high-pressure Adula Nappe (Switzerland) Keppler, R. , Stipp, M. , Froitzheim, N. , Kosak Glowczewski, J.	Target-rock weakening during peak-ring formation of the Chicxulub crater inferred from Expedition 364 drill core Riller, U. , Schulte, F. , Poelchau, M. , Rae, A. , Kring, D. , Grieve, R. , Lofi, J. , Morgan, J. , McCall, N. , Gulick, S. , IODP Expedition 364 Science Party	Dissolution kinetics and the initial evolution of porosity of polycrystalline carbonates Bollermann, T. , Fischer, C. , Siegesmund, S. , Lüttge, A.	Vitrinen auf - Besucher willkommen Kreher-Hartmann, B.	Survival of Microbial-Metazoan Reefs in the Early Triassic Greenhouse Climate Heindel, K. , Foster, W.J. , Ricoch, S. , Peckmann, J. , Birgel, D. , Lehrmann, D. , Baud, A. , Yu, M. , Reitner, J. , Martindale, R.C.	The imprint of Weichselian glaci-tectonism on the recent morphology of Jasmund (Rügen Island, NE Germany) Gehrmann, A. , Menschede, M. , Hüneke, H. , Obst, K. , Pedersen, S.A.S.
14:45	Chemical and 511B compositions of tourmaline from the Panasqueira W-Sn-Cu deposit, Portugal: considerations on fluid source and evolution Codeço, M. , Weis, P. , Trumbull, R.B. , Pinto, F. , Lecumberri-Sanchez, P.	Re-evaluation of phosphorus concentrations in muddy and sandy sediments of a cold temperate lagoon Berthold, M. , Reiff, V. , Schumann, R.	The effect of sulfur on the partitioning behaviour of moderately siderophile elements Laurenz, V. , Abeykoon, S. , Vogel, A.-K. , Rubie, D.C. , Frost, D.J.	Quartz texture development of an exhumation shear zone in the Erzgebirge, N-Bohemian Massif: constraints from microstructures and EBSD data Hallas, P. , Kroner, U.	Impact melt dynamics during cooling and peak ring formation of the Chicxulub crater, Mexico Schulte, F.M. , Riller, U. , Jung, S. , Poelchau, M.H. , Grieve, R.A. , Kring, D.A. , Claeys, P. , Wittmann, A. , IODP Expedition 364 Science Party	Spatiotemporal quantitative imaging of leaching processes with positron emission tomography (PET), improving process understanding and modelling performance Kulenkampff, J. , Barthen, R. , Gründig, M. , Karimzadeh, L. , Lippold, H. , Schymura, S. , Lippmann-Pipke, J.	FID GEO: New services for open access to scientific literature, maps and research data Hübner, A. , Achterberg, I. , Bertelmann, R. , Elger, K. , Pfurr, N. , Schüler, M.	Lake level fluctuations and lignite deposition in the Eocene lake “Prinz von Hessen” (Hesse, Germany): orbital versus tectonic control. A palynological study. Moshayedi, M. , Lenz, O.K. , Wilde, V. , Hinderer, M.	Climatically driven morphodynamic stability / activity and applied soil erosion research Sprafke, T. , Veit, H.
15:00	Exploring for Ni-Cu-PGE veins in the Sudbury Basin, Canada. Recognizing sulphide migration pathways by metamorphism and partial melting in container rocks. Wüstemann, T. , Goellner, P. , Riller, U.	Greenhouse gas emissions from shrimp ponds in the northeast of Hainan island Drews, M. , Rixen, T. , Warneke, T.	First-principles prediction of element partitioning between melts Jahn, S. , Wagner, J.	Structural evolution of shear zones along the Combin zone (Switzerland, Italy) and implications for the dynamics of the orogenic wedge in the Internal Western Alps Kirst, F. , Scheiber, T. , Leiss, B. , Kühn, R.	The ICDP drilling project on Lake Towuti, Indonesia: preliminary sedimentological, mineralogical, and geochemical results from surface sediments and drill cores Hasberg, A. , Melles, M. , Wennrich, V. , Morlock, M. , Vogel, H. , Russell, J.M. , Bijaksana, S. , Opitz, S. , Just, J. , Friese, A. , Vuillemin, A. , Kallmeyer, J. , Hesse, K. , Wonik, T. , and the TDP Science Team	Authigenic barite formation in microenvironments – implications from optical studies and hydrogeochemical modelling Aming, E. , Schulz, H.-M. , Wirth, R. , van Berk, W. , Gaucher, E.C.	Proben- und Sammlungsbestände aus dem Uranbergbau der SAG/SDAG Wismut Hiller, A.	Lipid biomarkers in Pleistocene cherts from Lake Magadi, Kenya – microbial signals and hydrothermal influence Reinhardt, M. , Duda, J.-P. , Reitner, J. , Thiel, V.	Geodynamics meets atmosphere: Reconstructing long-term surface elevation through stable isotope paleoaltimetry Mulch, A. , Methner, K. , Meijers, M. , Chamberlain, C.P.
15:15	Geometallurgy: a key for evaluation and efficient use of polymetallic rare metal and REE deposits, the example of Khalzan Buregtei (Mongolia) Sindern, S. , Gronen, L. , Iseke, T. , Bormann, U. , Katzmarzyk, J. , Hellmann, A. , Meyer, F.M.	Contrasting effects of land use change, river damming and a mud volcano on carbon, nutrient and sediment inputs into coastal waters of eastern Java, Indonesia. Jennerjahn, T. , Jänen, I. , Adi, S.	Evidence for an Earth-like Mo/W of the bulk-silicate Moon Fonseca, R. , Leitzke, F. , Sprung, P. , Münker, C. , Mallmann, G. , Michely, L.	The eclogites of the Schober Group: An example for Variscan and Eoalpine eclogite-facies metamorphism of the Austroalpine basement rocks Hauke, M. , Froitzheim, N. , Nagel, T.J. , Miladinova, I. , Fassmer, K. , Fonseca, R.O.C. , Sprung, P. , Münker, C.	High-resolution seismic imaging of the internal structure of the Tannwald Basin: a distal branch basin of the Rhine Glacier Burschill, T. , Buness, H. , Tanner, D. , Wielandt-Schuster, U. , Ellwanger, D. , Gabriel, G.	Risk of H2S contamination of natural gas stored in salt caverns Hemme, C. , van Berk, W.	Das Paläogen des Helmstedter Reviers, ein Forschungsthema im Geopark Harz - Braunschweiger Land - Ostfalen Wilde, V. , Riegel, W. , Lenz, O.K.	Characterization of lacustrine microbialites from south-eastern South Australia Chagas, A.A.P. , Webb, G.E. , Burne, R.V. , Southam, G.	

	HS 2010	HS 1010	GW2 B2880	GW2 B2890	GW2 B2900	SFG 1010	SFG 1040	SFG 1010	SFG 1040
09:00 - 10:30	5.2 Tropical coral archives – Reconstructions of climate and environment beyond the instrumental record at society-relevant timescales Felis, T., Pfeiffer, M., Zinke, J.	4.3 Reactions at mineral-water interfaces in the Earth Sciences: theory and experiment Wolthers, M., Hövelmann, J., Fischer, C.	2.3 Processes in layered mafic magma chambers and formation of associated ore deposits Namur, O., Faak, K., Trumbull, R., Veksler, I.	1.1 Geohazards in time and space Terhorst, B., Vött, A., Zimanowski, B.	1.4 From rifts to passive continental margins: mantle-, and lithosphere-basin dynamics, and long-term landscape evolution Glasmacher, U. A., Scheck-Wenderoth, M., Bunge, H.-P., Kukla, P.	6.1 Cosmochemistry / planetology / asteroidal processes Hezel, D., Burkhardt, C.	9.1 Archaeometry and monument conservation Bente, K., Berthold, C., Greiff, S.	2.2 Intraplate volcanoes: evolution, processes and hazards Breitkreuz, C., Klügel, A., Walter, T.	5.1 The last deglaciation Sarnthein, M., Kuhnt, W.
09:00	Introduction to the session on ‘Tropical coral archives’ <u>Felis, T.</u> , Pfeiffer, M., Zinke, J.	Crystals and Equilibrium – New Insight on an “Old” Topic <u>Luttge, A.</u> , Fischer, C., Arvidson, R.S.	Keynote: A microstructural perspective on the role of compaction in the formation of the Skaergaard and the Bushveld adcumulates <u>Vukmanovic, Z.</u> , Holness, M.	Pyroclast-forming Submarine Volcanism: Mechanisms and Hazard Potential <u>Zimanowski, B.</u> , Büttner, R.F., White, J.D., Gudmundsson, M.T.	Keynote: Stratigraphic framework for the plume mode of mantle convection <u>Friedrich, A.M.</u>	Mixing and transport of solids in the circumstellar disk as inferred from Ti isotope anomalies in planetary materials <u>Burkhardt, C.</u> , Gerber, S., Budde, G., Metzler, K., Kleine, T.	Keynote: “Non-invasive” portable laser ablation sampling of art and archaeological materials with subsequent trace element and multi-isotope analyses. <u>Knaf, A.C.</u> , Koornneef, J.M., Davies, G.R.	The juvenescence of the Walvis Ridge – evidence for recent submarine volcanism from hydro-acoustic data in the vicinity of Tristan da Cunha Geissler, W., Wintersteller, P., Strack, A., Kammann, J., Jegen, M., Maia, M., Jokat, W.	Sediment features across the grounding zone and beneath Ekström Ice Shelf, East Antarctica, imaged using on-ice vibroseis <u>Smith, E.</u> , Drews, R., Ehlers, T., Franke, D., Gaedicke, C., Hofstede, C., Kuhn, G., Lambrecht, A., Mayer, C., Tiedemann, R., Eisen, O.
09:15	Constraining 20th Century Pacific Trade-Wind Variability Using Coral Mn/Ca: The First Wide-Scale Application of a Novel Wind Proxy <u>Sayani, H.</u> , Thompson, D., Carilli, J., Cobb, K.	Maps of rate, rate acceleration, and rate jerk reveal the dynamics of crystal dissolution <u>Fischer, C.</u> , Luttge, A.		Lahar hazard at Colima volcano caused the 2015 Hurricane Patricia investigated by repeated drone surveys and time lapse cameras <u>Walter, T.</u>		Mineralogical Chondrule Zonation in Ordinary Chondrites <u>Barosch, J.</u> , Hezel, D.		Mineral textures in ignimbrites of the Quaternary Aragats stratovolcano, western Armenia: Implication for magma chamber dynamics <u>Gevorgyan, H.</u> , Repstock, A., Schulz, B., Meliksetian, K., Breitkreuz, C., Israyelyan, A.	Long-term vegetation, climate and ocean dynamics inferred from a 73,500 years old marine sediment core (GeoB2107-3) off southern Brazil <u>Gu, E.</u> , Zonneveld, K., Chiessi, C., Arz, H., Pätzold, J., Behling, H.
09:30	Frequency of extreme daily temperatures (HadEX2) over Eurasia documented in a northern Red Sea coral oxygen isotope record during the last century <u>Ionita, M.</u> , Felis, T., Rimbu, N., Lohmann, G.	Keynote: Ion adsorption at mineral-water interfaces under extreme pH conditions <u>Fernandez-Martinez, A.</u> , Ma, B., Carrero, S., Perez-Lopez, R., Nieto, J.M., Charlet, L., Poulain, A.	Orthopyroxene oikocrysts in the MG1 chromitite layer of the Bushveld Complex: Implications on cumulate formation and recrystallisation <u>Kaufmann, E.</u> , Vukmanovic, Z., Holness, M., Hecht, L.	Combining surface and subsurface analyses for the reconstruction of landslide dynamics <u>Wilde, M.</u> , Terhorst, B., Rodríguez Elizarrarás, S.R., Morales Barrera, W.V., Schwindt, D., Bücker, M., Flores Orozco, A., Pita de la Paz, C., García García, E.	Keynote: Impacts of the Icelandic Plume on the North Atlantic Geological Record <u>Hoggard, M.</u> , Parnell-Turner, R., White, N.	Using the ChondriteDB database to determine the number of parental reservoirs for chondrules of individual chondrites. <u>Hezel, D.</u>	XRD on bioapatites concerning archaeometric questions <u>Hölzig, H.</u> , Münster, T., Kloess, G.	The Early Permian Wurzen Caldera of northern Saxony, Germany: Deciphering the pre-eruptive evolution and dynamics in the magma reservoir of a super volcano <u>Repstock, A.</u> , Breitkreuz, C., Schulz, B., Romer, R.L.	Inter-species planktonic 14C offsets driven by changes in abundance over the last deglaciation <u>Roberts, J.</u> , Lamy, F., Mackensen, A., Sarnthein, M., Southon, J., Tiedemann, R.
09:45	Earthquake and tsunami archives in coral growth parameters and geochemical records <u>Ito, S.</u> , Yamazaki, A., Yano, M., Watanabe, T.K., Putra, T.E., Nishimura, Y., Watanabe, T.		Stratigraphy and mineralogy of platinum-group elements within the Jurassic layered mafic Dufek Intrusion, Antarctica <u>Hanemann, R.</u> , Viereck, L.	Data acquisition methods for landslide proxies. <u>Kreuzer, T.</u> , Damm, B.		Structural evidence for long-term crater modification of the Sudbury Impact Structure, Canada <u>Shibistova, A.</u> , Riller, U.	Diffusion-induced copper isotope fractionation in copper metal: Implications for archaeometallurgical research <u>Rose, T.</u> , Morgenstern, G., Stelter, M., Klein, S.	Late Paleozoic supereruptions in Central Europe: Anatomy of the Rochlitz caldera in northern Saxony <u>Breitkreuz, C.</u> , Hübner, M., Repstock, A.	The Antarctic Cold Reversal and deglacial onset of the Australian Monsoon <u>Kuhnt, W.</u> , Holbourn, A., Xu, J., Opdyke, B., De Deckker, P., Röhl, U., Mudelsee, M., Schröder, J.F., Sarnthein, M., Sonne-257 Shipboard Scientific Party
10:00	A high-precision gamma densitometer for quantifying skeletal density in coral skeletons: physical background and first results <u>Gischler, E.</u> , Deveaux, M., Wiebusch, M., Erkoç, M.	A mechanistic model of carbonate dissolution in the presence of electrolytes <u>Kurganskaya, I.</u> , Luttge, A., Churakov, S.V.	Platinum-group elements and platinum-group minerals in the weathered chromitites of the Lower and Middle Group chromitites of the Bushveld Complex <u>Junge, M.</u> , Bachmann, K., Kotzé, E., Oeser-Rabe, M.	Statistical landslide susceptibility assessment in zones of rapid urban development: case study Lanzhou city <u>Torizin, J.</u> , Wang, L., Fuchs, M., Tong, B., Balzer, D., Wan, L., Kuhn, D., Li, A., Chen, L.	Mantle convection models constrain central Neo-Tethys Ocean reconstructions Nerlich, R., Colli, L., <u>Ghelichkhan, S.</u> , Schuberth, B., Bunge, H.-P.	Microstructural analysis of the thermal aureole of the Sudbury impact melt sheet, Canada: Implications for the formation of the Footwall Breccia <u>Göllner, P.</u> , Wüstemann, T., Riller, U.	The mechanical properties of heat-treated silica rocks <u>Schmidt, P.</u> , Buck, G., Berthold, C., Nickel, K.	Eruption at Fogo volcano, 2014-2015, crustal deformation and surface changes as observed by photogrammetry and InSAR <u>Walter, T.</u>	Last deglacial planktic and benthic foraminifera d18O and d13C and D14C records from the Western Pacific Warm Pool <u>Martínez Méndez, G.</u> , Mohtadi, Southon, M. J., Awaluddin, M. Y., Hollstein, M., Steinke, S.
10:15	Exploring the influence of climate variability on nitrogen cycling in the Pacific Ocean from coral stable nitrogen isotopes records: preliminary results <u>Duprey, N.</u> , Martinez-Garcia, A., Sanchez, S., Corregge, T., Carriquiry, J., Charles, C., Haug, G.	Atomistic Simulations of Water Confined in Hydroxyapatite Nanopores <u>Di Tommaso, D.</u> , Prakash, M., Lemaire, T., Lewerenz, M., de Leeuw, N., Naili, S.	Vanadium distribution in the Upper Zone of the Bushveld Complex: Constrains on fO2 <u>Fischer, L.A.</u> , Horn, I., Holtz, F., Charlier, B.	Case histories for post-construction landslides – examples from the Mittelland Canal (Germany) <u>Wohlers, A.</u> , Damm, B.	Retrodictions of Mid Paleogene mantle flow and dynamic topography in the Atlantic region from compressible high resolution adjoint mantle convection models: Sensitivity to deep mantle viscosity and tomographic input model Colli, L., Ghelichkhan, S., <u>Bunge, H.-P.</u> , Oeser, J.		Magnetic prospecting and magnetic characteristics of semi-terrestrial floodplain sediments <u>Stele, A.</u>	Magma plumbing during the 2014-2015 eruption of Fogo (Cape Verde Islands) <u>Klügel, A.</u> , Schmid, M., Day, S., Faria, B.	
10:30	Coffee break								

HS 2010	HS 2010	HS 2010	HS 2010	HS 2010	HS 2010	HS 2010	HS 2010	HS 2010	HS 2010
10:45 - 12:15	5.2 Tropical coral archives – Reconstructions of climate and environment beyond the instrumental record at society-relevant timescales Felis, T., Pfeiffer, M., Zinke, J.	4.3 Reactions at mineral-water interfaces in the Earth Sciences: theory and experiment Wolthers, M., Hövelmann, J., Fischer, C.	1.2 Archives of Quaternary climatic and environmental changes Sauer, D., Sprafke, T., Brauer, A.	7.5 From source to sink: Environmental signal propagation into the stratigraphic record Wittmann-Oelze, H., Bernhardt, A.	1.4 From rifts to passive continental margins: mantle-, and lithosphere-basin dynamics, and long-term landscape evolution Glasmacher, U. A., Scheck-Wenderoth, M., Bunge, H.-P., Kukla, P.	8.4 Spectroscopic 2D-methods: Multiscale imaging spectroscopy Rammlmair, D., Frei, M.	2.6 High-resolution geochronology and isotope tracing of high-temperature geological processes Schwarz, W., Wotzlaw, J.-F., Weyer, S.	6.4 Precambrian biotic and environmental (co-)evolution Nettersheim, B., Leider, A., Hallmann, C.	2.5 Subduction zone magmatism and crustal evolution Wörner, G., Haase, K.
10:45	Change in nitrogen fixation derived from Caribbean coral skeletons Yamazaki, A. , Hetzinger, S., von Reumont, J., Manfrino, C., Tsunogai, U., Sano, Y., Watanabe, T.	Fractionation of Fe and Cu isotopes in acidic mine tailings: modification and application of a sequential extraction method Roebbert, Y. , Rabe, K., Lazarov, M., Schippers, A., Dold, B., Weyer, S.	Keynote: Southern Hemispheric Westerlies: reconstructing their intensity and position based on multiproxy investigations of sediments from Laguna Azul (Southern Patagonia, Argentina) Zolitschka, B. , Fey, M., Janssen, S., Maidana, N., Mayr, C., Wulf, S., Haberzettl, T., Corbella, H., Lücke, A., Ohlendorf, C., Schäbitz, F.	Keynote: Environmental signal propagation into the stratigraphic record of small mountainous rivers feeding submarine canyon-fan systems, southern California Covault, J. , Romans, B., Sharman, G., Stockli, D., Fildani, A.	On the observability of epeirogenic movement in current and future gravity missions Ghelichkhan, S. , Murböck, M., Colli, L., Pail, R., Bunge, H.-P.	New perspectives for mineral exploration at the meso-scale Rammlmair, D. , Schodlok, M., Meima, J., Nikonow, W., Berkh, K.	Keynote: Pb-loss in apatite and high temperature (>350°C) U-Pb thermochronology Spikings, R. , Paul, A., Popov, D.	The Archean continental crust as a location for the origin of life Schreiber, U. , Mayer, U., Dávila, M., Bronja, A., Schmitz, O.J.	Mélange formation at the slab-mantle interface as a key process in the generation of arc magmas: geochemical evidence Marschall, H. , Nielsen, S.
11:00	A Coral Ensemble Approach to Reconstructing Central Pacific Climate Change During the Mid-Holocene Atwood, A.R. , Cobb, K.M., Grothe, P.M., Sayani, H.R., Southon, J.R., Edwards, R.L., Deocampo, D.M., Chen, T., Hitt, N.T., Chiang, J.C.H.	Temperature Effect on Arsenate Sorption at Goethite Ebert, M. , Lüders, K., Köber, R.			Geodynamics of passive margins: insights from the DFG Schwerpunktprogramm SAMPLE for the South Atlantic and beyond Bunge, H.-P.	Multi-scale imaging spectroscopy for mineral mapping on selected diamond drill core of the REE bearing Carbonatite Storkwitz, Saxony Schodlok, M. , Iwan, L., Meima, J., Goericke, D., Rammlmair, D.		Evolution of peptides in the continental crust Mayer, C. , Schreiber, U., Dávila, M., Bronja, A., Schmitz, O.	The budget of High Field Strength Elements in IBM forearc boninites and tholeiites, IODP Exp. 352 Wagner, J.L. , Kirchenbaur, M., Münker, C., Sprung, P., Marien, C.S.
11:15	Temperature proxies in Holocene corals and their differential susceptibility to early diagenesis: A case study on SST records from French Polynesia Rashid, R., Eisenhauer, A., Liebetrau, V., Fietzke, J., Böhm, F., Wall, M., Krause, S., Schmidt, M., Rüggeberg, A., Goos, M., Dullo, W.-C.	The Herbicide MCPA is Enhancing Mobility of Copper in Soil Kersten, M.	Continuous ice surface lowering during the last glacial cycle, Fitz Roy Massif, Argentina Geiger, A.J. , Fabel, D., Glasser, N.	Latitudinal variation (15°-23°S) in denudation along the Western Andean Margin (Peru and Chile): Insights from cosmogenic 10Be. Starke, J., Ehlers, T.A., Schaller, M.	Post-breakup burial and exhumation of passive continental margins: Seven propositions to inform geodynamic models Japsen, P., Green, P.F., Chalmers, J.A., Bonow, J.M., Duddy, I.	Hyperspectral Imaging Analysis for Mineral Exploration in the Iberian Pyrite Belt, Spain Papenfuß, A. , Frei, M., Schodlok, M.	Electron microprobe Th-U-Pb monazite dating of Devonian metamorphism in Münchberg and Frankenberg allochthonous units in the Saxothuringian Zone Schulz, B. , Krause, J., Schüssler, U.	Archean terrestrial environments in the rock record of the Moodies Group (~3.22 Ga) Heubeck, C.	Evaluation of highly siderophile elements and stable Fe and V isotope systematics of ultra-mafic lavas from the complex Solomon Islands subduction zone, SW Pacific Schuth, S. , Luguet, A., Brüggmann, G., Ballhaus, C., Weyer, S., Münker, C.
11:30	Last interglacial sea levels and regional tectonics from fossil coral reefs at the Gulf of Aqaba Stein, M. , Bar, N., Yehudai, M., Shaked, Y., Agnon, A., Lazar, B.	Radiotracer exchange studies for gaining direct insight into the equilibrium characteristics of elementary processes determining humic-bound metal transport Lippold, H.	High-altitude peatlands of the central Andes as sentinels of Holocene environmental changes Schitteck, K. , Kock, S., Hense, J., Mächtle, B.	In situ and meteoric cosmogenic nuclides in large low-land basins- Concepts, similarities, and implications for sediment routing Wittmann, H. , von Blanckenburg, F., Haedke, H.	Thermochronological constraints on the Cambrian to recent geological evolution of the Argentine and Uruguayan passive continental margin Glasmacher, U. , Krob, F., Rosello, E.A., Gaucher, C., Stockli, D.F., Pereyra, R.E.	Comparison of classification and quantification methods for µ-EDXRF, hyperspectral imaging and LIBS core scanning in a case study for drillcores from Bad Grund / Germany Hornschu, M. , Meima, J., Altenberger, U., Rammlmair, D.	Petrology and geochronology of mylonitic high-pressure granulites from the Variscan Schwarzwald (SW Germany) Anguelova, M. , Hanel, M., Soder, C., Schmitt, A.K., Altherr, R., Schwarz, W.	Local and regional controls on the maturation state of carbonaceous matter in the Barberton Greenstone Belt Nabhan, S. , Köhler, I., Heubeck, C.	Tonalite melts from mafic oceanic crust on Fiji: Analogues for Archean crustal growth? Marien, C.S. , Drewes, E., Hoffmann, J.E., Gill, J.B., Münker, C.
11:45	A 75-Year Long Absolute SST Reconstruction Reveals Last Interglacial Variability in the Tropical Atlantic Warm Pool: Comparison of Model and Coral-Based Reconstructions DeLong, K. , Ouellette, G., Goodkin, N., Martin, E., Rosenthal, D., Taylor, F., Shen, C.-C.	Reactive transport modeling to quantify anhydrite dissolution and gypsum precipitation in clay-sulfate rocks Schweizer, D., Prommer, H., Blum, P., Siade, A.J., Butscher, C.	Reconstruction of the deglaciation history in the Fremont Lake-Titcomb basin, Wind River Range, Wyoming, using 10Be exposure dating Dühnforth, M. , Anderson, R.S.	Cosmogenic nuclide-derived denudation signals from global large river basins Haedke, H. , Wittmann, H., von Blanckenburg, F.	The Paleocene-Eocene evolution of the onshore margin southeast Brazilian using Apatite Fission Track and (U-Th)/He ages Hackspacher, P.	Geochemical and mineralogical mapping of tailing samples with energy dispersive X-ray fluorescence (EDXRF) and automated image analysis compared to Raman analysis Berkh, K. , Rammlmair, D.	Calibration of suitable garnet reference materials for in situ lithium isotope analyses Binck, J. , Marschall, H., Seitz, H.-M., Ludwig, T., Höfer, H.	Looking for Archean cellular life: natural vs. experimental approaches Rouillard, J. , Gong, J., Munoz Saez, C., Garcia-Ruiz, J.-M., van Zuilen, M.	The behaviour of Sn and In during mantle melting and crust formation Kirchenbaur, M. , Braggagni, A., Sprung, P., Harak, M., Münker, C.
12:00	Last interglacial temperature and hydroclimate seasonality reconstructed from tropical Atlantic corals Brocas, W.M. , Felis, T., Gierz, P., Lohmann, G., Werner, M., Obert, J.C., Scholz, D., Kölling, M., Scheffers, S.R.	Simulations of Reactive Transport in Porous Media: Dealing with Heterogeneities and Examples From Geo-Science Prill, T. , Iliev, O., Enzmann, F., Kersten, M.	3D microfabric analysis of progressive, polyphase subglacial deformation beneath the late Weichselian Baltic Ice Stream (Scandinavian Ice Sheet, Europe) Hüneke, H. , Brumme, J., Phillips, E.	New insights on the Neoproterozoic to recent geological evolution of the continental margin of Southeastern Brazil derived from zircon and apatite (U-Th-Sm)/He and fission-track data Krob, E. , Stippich, C., Glasmacher, U., Hackspacher, P.	Modal mineralogy of plutonic rocks determined by energy dispersive X-ray fluorescence mapping compared to Mineral Liberation Analyser Nikonow, W. , Rammlmair, D.	Tracking nitrogen transfer through the Earth's crustal reservoirs Halama, R. , Bebout, G.	Declining importance of high-temperature hydrothermal fluid input into shallow Transvaal seawater prior to the GOE Schier, K. , Bau, M., Münker, C., Beukes, N., Viehmann, S.	Basement rocks of the Magallanes foreland basin, Tierra del Fuego; constraints from zircon Lu-Hf and O isotopes, and REE data Castillo, P. , Fanning, M., Pankhurst, R.J., Hervé, F., Rapela, C.W.	
12:15	Coffee break								
12:30	Awards DMG								
13:00	Lunch								

	HS 2010	HS 1010	GW2 B2880	GW2 B2890	GW2 B2900	SFG 1010	SFG 1040	SFG 2010	SFG 2040
14:00 - 15:30	5.2 Tropical coral archives – Reconstructions of climate and environment beyond the instrumental record at society-relevant timescales Felis, T., Pfeiffer, M., Zinke, J.	4.3 Reactions at mineral-water interfaces in the Earth Sciences: theory and experiment Wolthers, M., Hövelmann, J., Fischer, C.	1.2 Archives of Quaternary climatic and environmental changes Sauer, D., Sprafke, T., Brauer, A.	7.5 From source to sink: Environmental signal propagation into the stratigraphic record Wittmann-Oelze, H., Bernhardt, A.	1.4 From rifts to passive continental margins: mantle-, and lithosphere-basin dynamics, and long-term landscape evolution Glasmacher, U. A., Scheck-Wenderoth, M., Bunge, H.-P., Kukla, P.			6.4 Precambrian biotic and environmental (co-)evolution Nettersheim, B., Leider, A., Hallmann, C.	2.5 Subduction zone magmatism and crustal evolution Wörner, G., Haase, K.
14:00	Tropical to temperate coral archives around Japan <u>Watanabe, T.</u> , Yamazaki, A.	Dolomite surface rate variability under acidic-aqueous conditions <u>Bibi, I.</u> , Arvidson, R., Fischer, C., Niazi, N.K., Lüttge, A.	Advancing mass spectrometry imaging of sediments: molecular stratigraphy with sub-mm resolution. <u>Wörmer, L.</u> , Hinrichs, K.-U., ZOOMECLAR team	Reactive versus Buffered Sediment Routing Systems: The Paleogene Record in the Greater Gulf of Mexico Basin <u>Snedden, J.</u> , Blum, M.	Evolution of structures, pressure and temperature in the footwall of large scale overthrusts – Oman’s passive continental margin during obduction orogeny <u>Grobe, A.</u> , von Hagke, C., Littke, R., Urai, J.L.			Keynote: The evolution of Earth's biogeochemical nitrogen cycle <u>Buick, R.</u> , Stueeken, E., Kipp, M., Koehler, M.	Crystallisation conditions of fore-arc basalts from the Izu-Bonin-Mariana island arc: experimental constraints <u>Linsler, S.A.</u> , Almeev, R.R., Holtz, F., Botcharnikov, R.E., Portnyagin, M.V.
14:15	Relict coral reefs in the Mediterranean Sea: a story of adaptation, survival and decline over geological and human timescales <u>Kersting, D.</u> , Linares, C.	Modelling approaches to identify sources of dissolution rate variability on multiple scales <u>Kurganskaya, I.</u> , Fischer, C., Luttge, A., Churakov, S.V.	Effect of different sediment components on the detectability of lipid biomarkers via spatially resolved, laser-based mass spectrometry <u>Wu, T.</u> , Wang, J.-X., Wendt, J., Wörmer, L.-P., Hinrichs, K.-U.	Hierarchy of source-to-sink systems — Example from the Nile distribution across the eastern Mediterranean <u>Schattner, U.</u>	Role of the Inherited Wadi Ghoweiba Oblique Half-Graben on the Gulf of Suez Rift Development, Egypt <u>Abdelkhalek, A.</u> , Sehim, A., Hammad, M.S., Ivanković, J.				Back-arc magmatism of the southern Okinawa Trough <u>Hsu, S.-K.</u> , Chen, S.-C., Yeh, Y.-C., Tsai, C.-H.
14:30	Offline Data Assimilation of Pseudo-observations into a Regional Climate Model <u>Fallah, B.</u> , Cubasch, U.	On the easiness of growth of the dolomite-analogue mineral norsethite <u>Lindner, M.</u> , Saldi, G.D., Jordan, G., Schott, J.	The isotopic dance of the Monsoon/Environment couple in a Holocene speleothem from Vietnam <u>Hartmann, A.</u> , Eiche, E., Neumann, T., Schröder-Ritzrau, A., Riechelmann, D., Mertzt-Kraus, R., Scholz, D.	A newly identified Sediment Sink for the Ems Estuary based on Persistent Scatterer Interferometry (PSI) <u>Lege, T.</u> , Kalia, A.C., Adam, N.	Timing and spatial patterns of Cretaceous and Cenozoic inversion in the Southern Permian Basin <u>Kley, J.</u>				Lithospheric evolution at the Early Andean convergent margin, Chile Oliveros, V., Creixell, C., Vasquez, P., Lucassen, F., <u>Gonzalez, J.</u> , Espinoza, M.
14:45	Monitoring and assisting coral reefs in the Anthropocene <u>Leinfelder, R.</u>	Face-specific replacement of calcite by amorphous silica creates natural photonic crystals <u>Liesegang, M.</u> , Milke, R.	Sr-isotopic signatures in modern and Holocene catfish otoliths and bivalve shells along the NW African coast - Potential proxies for freshwater discharge <u>Höpker, S.</u> , Müller, P., Wu, H.C., Barusseau, J.-P., Vernet, R., Sadio, O., Mann, T., Lucassen, F., Kassemann, S., Westphal, H.	Climate-tectonic interaction at the Southern Alaska continental margin: insights from a single grain provenance approach Huber, B., Bahlburg, H., Berndt, J., Dunkl, I., Gerdes, A., Pfänder, J.A.	Influence of mechanical stratigraphy and fault kinematics on the development of massively dilatant faults – insights from scaled physical models and outcrop data from Iceland Kettermann, M., Weismüller, C., <u>von Hagke, C.</u> , Bücken, D., Bitsch, N., Urai, J.L., Reichert, K.			Reconstruction of the Neoproterozoic Urucum habitat in the fate of severe glaciogenic epochs <u>Viehmann, S.</u> , Bau, M., Bühn, B., Dantas, E.L., Andrade, F.R., Walde, D.	Igimbrite magmatism related to the Central Andean subuction zone through space and time: compositions, magma production rates and net crustal growth <u>Wörner, G.</u> , Brandmeier, M., Freymuth, H.
15:00		Slow reaction of mackinawite in aqueous solutions: A Mössbauer study <u>McCammon, C.</u> , Wan, M., Peiffer, S.	Nd, Pb, and Sr isotope composition of organic materials, guano and fishmeal, from upwelling waters off Chile and Peru <u>Lucassen, F.</u> , Kassemann, S.A., Wilke, H.-G., Vásquez, P., Sepúlveda, F.	Up-stratigraphic provenance variations of Palaeozoic siliciclastic rocks from the Ellsworth Mountains in West Antarctica, as determined by detrital zircon geochronology <u>Castillo, P.</u> , Fanning, M., Fernandez, R., Poblete, F., Hervé, F.				Extreme heterotrophy after the Neoproterozoic Snowball Earth glaciations <u>van Maldegem, L.</u> , Sansjofre, P., Weijers, J., Wolkenstein, K., Strother, P., Wormer, L., Elvert, M., Heftner, J., Hallmann, C.	Volcano-tectonics at the northern terminus of the Liquine-Ofqui Fault Zone, Southern Volcanic Zone, Argentina <u>Riller, U.</u> , Petrinovic, I., Balbis, C., Pitzke, E., Strauer, M., Eisermann, J.O.
15:15		Surface alteration in the transition zone between soil and bedrock <u>Aehnelt, M.</u> , Ritschel, T., Totsche, K.U.	Quantifying shale weathering by Li isotopes <u>Steinhöfel, G.</u> , Brantley, S.L., Fantle, M.S., Steinhöfel, G.					Biomarker taphonomy and terrestrial organic matter fluxes in mid-Neoproterozoic rocks <u>Neumann, M.</u> , Sansjofre, P., Moczydłowska-Vidal, M., Hallmann, C.	Electrical conductivity of aqueous HCl solutions at elevated temperature and pressure from impedance measurements in HDAC experiments <u>Klumbach, S.</u> , Kepler, H.
15:30	Closing ceremony								