Poster sessions day 1, Thursday 19.09.2019, 15:20h – 17:30h

Poster board number	Subduction zone seismotectonics and earthquake dynamics
1	Full-Waveform Inversion for Seismic Velocity and Moment Tensor Solutions beneath North Chile **Y. Gao**, F. Tilmann, D.-P. van Herwaarden, S. Thrastarson, A. Fichtner
2	Rupture directivity and stress drop estimation at the Northern Chilean subduction zone **J. Folesky**, J. Rakau, J. Kummerow, S. A. Shapiro
3	Seismic structure and tectonics of the north Chilean convergent margin between 19ºS and 21ºS using multichannel seismic reflection data **F. Gonzalez**, E. Contreras, A. Tréhu, E. Vera
4	Electrical structure of the Andean orogenic crust in Northern Chile at 23°S using magnetotelluric data **F. Reyes Córdova**, D. Díaz Alvarado, K. Slezak
5	Seismic Processing Strategy and Crustal Structure of the April 1, 2014 Mw 8.2 Rupture Area Offshore Northern Chile from Seismic Reflection Data **B. Ma**, D. Kläschen, H. Kopp, A. Tréhu
6	Marine forearc structure of the 2014 Mw 8.1 Iquique earthquake revealed by hypocenter locations from offshore observations **F. Petersen**, D. Lange, I. Grevemeyer, H. Kopp, E. Contreras-Reyes, S. Barrientos
7	Kinematics of subduction processes during the earthquake cycle in Central Chile **K. Bataille**, L. Aguirre, C. Novoa, C. Peña, F. Vera
8	Subduction kinematics in the years before and after the 2014, Iquique Mw 8.1 Earthquake, Chile from de-noised GPS trajectories and joint slip-strain models **J. Bedford**, Z. Deng, M. Moreno, D. Lange, B. Schurr, H. Soto
9	Probing the Northern Chile megathrust with seismicity – The 2014 M8.1 Iquique earthquake sequence **H. Soto**, C. Sippl, B. Schurr, J. Kummerow, G. Asch, F. Tilmann, D. Comte, S. Ruiz, O. Oncken
	Crustal evolution of ancient crustal terranes
10	P-T-d path of a garnet-bearing metagranite from the Paleoproterozoic basement of the Tandilia terrane, Rio de la Plata craton, Argentina **M. Angeletti**, J. C. Martínez, M. C. Frisicale, H.-J. Massonne
11	Thermochronology of the São Francisco Craton and Araçuaí-Ribeira Orogenic System Transition A. O. Chaves, L. G. Knauer, A. W. Romano, **B. A. Alemao Monteiro**, A. L. Ximenes, C. E. Vieira, G. B. Vargas, C. Lana, M. Silva, A. R. Alkimin
12	The Iglesias Complex in the Merida Andes Venezuela: A record of Cambrian-Silurian continental arc and Permo-Triassic Pangea amalgamation in western Gondwana **M. D. Tazzo**, B. Weber, A. Schmitt, R. González-Guzmán, V. Valencia, D. Frei, P. Schaaf, L. Solari
	Volcanism and tectonics
13	Tortonian trachyte volcanoe in the Alta Sierra de Somún Curá Volcanic Complex. Northern Extrandean. Patagonia. Argentina **M. Remesal**, M. E. Cerredo, J. M. Albite, F. Salani, C. Parica
14	Somún Curá Magmatic Province (Argentina). Lava-pyroclastic sequence southern of El Cain village: Age and composition **F. Salani**, M. Remesal, M. E. Cerredo, C. Parica
15	2D modelling of magnetic anomaly Tona on the Argentine continental margin **A. C. Pedraza De Marchi**, M. E. Ghidella, J. R. Franzese
16	Geothermal systems exploration in the southern Chilean volcanic zone by magnetotelluric method **M. Pavez**, E. Schill, S. Held, D. Díaz, T. Kohl
17	Advances in B isotope analysis of silicate rocks – applications in arc settings (Chile) **A. Paul**, L. A. Kirstein, I. Savov, C. de Hoog, T. Elliott, S. J. Turner, S. Agostini
18	Investigation of fractal dimensions of impact-induced cataclasite of the Chicxulub impact crater based on an improved semi-automatic image segmentation workflow using SAGA GIS **S. Kölln**, O. Conrad, U. Riller
19	Tracing the volcanic and tectonic effects of the Miocene Andean stage along the Patagonian retroarc: an example of the Río Negro system, Argentina **L. D'Elia**, A. Bilmes, M. López, J. Bucher, M. García, R. Feo, J. Cuitiño, J. R. Franzese

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20	Dynamic interaction of the initial impact melt sheet during peak-ring formation of the Chicxulub Impact Crater, México **F. Schulte**, U. Riller
21	Miocene volcaniclastic foreland basin infill next to the exhumed North Patagonian Andean batholith: a record of collapse-caldera eruptions? **M. López**, J. Bucher, M. García, L. D`Elia, A. Bilmes, J. Franzese
22	Holocene flank-eruptions at the Lanín Volcano (Southern Volcanic Zone), Patagonia C. Balbis, **I. A. Petrinovic**, J. A. Brod
23	Geodynamic importance of the spatial distribution of monogenetic volcanic centers in the Southern Andes between 39°S and 37°S **Y. Lee**, P. Göllner, U. Riller
	Ocean, sediment, and climate dynamics
24	A late Quaternary paleoecological record from Lake Petén Itzá, Guatemala: effects of abrupt climate change on aquatic and terrestrial communities in the lowland northern Neotropics **L. Pérez**, A. Correa-Metrio, S. Cohuo, L. Macario-Gonzalez, M. Brenner, S. Kutterolf, M. Stockhecke, A. Schwalb
25	Basin evolution, lake establishment and orbital scale climatic variability: the ca. 500 ka sedimentary record of Lake Chalco, central Mexico **B. Ortega**, R. Martínez, L. Romero, D. Avendaño, S. Lozano, M. Caballero, E. Brown, B. Valero, M. Stockhecke, P. Fawcett, J. Werne, L. Pérez, A. Schwalb
26	Tracking changes in weathering influx into late Ediacaran marine systems using lithium isotopes in carbonate rocks: An example from the Corumbá Group, Brazil **G. Paula-Santos**, S. Kasemann, A. Meixner, S. Caetano-Filho, R. Trindade, K. Amorim, J. Enzweiler
27	Reconstructing past climatic changes using lacustrine sediments from Laguna Comedero, NW Argentina **P. Vignoni**, R. Tjallingii, F. Córdoba, B. Plessen, G. Torres, L. Lupo, A. Brauer
28	Palaeoenvironmental changes over the last millennia in the subtropical forests of Northwest Argentina inferred from fossil pollen records **G. Torres**, L. Lupo, P. Vignoni, F. Córdoba, A. Brauer
29	Water table and biotic effects on Precambrian aeolian depositional systems in Brazil and India **G. Basilici**, F. R. Abrantes Júnior, M. V. Soares Theodoro, A. Cardoso Ribeiro, R. Vásconez Garcia
30	Future offshore research activities in Northern Chile using RV SONNE **H. Kopp**, D. Lange
31	Strontium isotope dating of evaporites and the breakup of the Gulf of Mexico and Proto-Caribbean seaways **B. Weber**, J. Pindell, S. Padilla-Ramírez
	Geophysics
32	GPR supported sampling for environmental purposes. Examples from te Rio São Francisco marginal lagoons, Minas Gerais, Brazil **H. A. Horn**, P. A. Aranha, W. Trindade, A. Magalhães
33	Urban micro-gravity: study of irregularities in the basement of Querétaro city (Mexico) and subsidence risks **V. Yutsis**, J. A. Arzate Flores, D. A. Velásquez, A. Días de León, D. E. Torres, M. Espinosa
34	Towards Visualization Possible Fluid Pathways Using Gravity in the Los Humeros and Acoculco Geothermal Fields **N. Cornejo**, E. Schill, S. Held, J. Carrillo, M. Pérez

Poster sessions day 2, Friday 20.09.2019, 15:30h – 17:30h

Poster board number	Deformation, climate, and erosion in the Andes
1	The Paleozoic Claromecó Basin (Argentina): 3D lithospheric scale density model **S. E. Vazquez Lucero**, C. Prezzi, M. Scheck-Wenderoth, J. Bott, M. L. Gomez Dacal, H. Vizan, F. I. Ballestrini
2	Tectonic and climatic coupled processes in North Patagonian Andes: Miocene orographic barrier uplift and rain shadow generation **J. Bucher**, A. Bilmes, L. D'Elia, M. López, M. García, A. Varela, J. Franzese
3	GNSS-based remote sensing: Innovative observation of key hydrological parameters in the Central Andes **N. Antonoglou**, B. Bookhagen, J. Wickert, A. Güntner, A. de laTorre
4	The role of mass wasting in glacial forelands of the Andes **E. Schönfeldt**, O. Korup, D. Winocur, T. Pánek
5	Approaching the organic carbon balance: Interaction of climate, tectonics, erosion and biota in riverine carbon transport and respiration at the Bermejo River **S. Dosch**, N. Hovius, D. Sachse
6	New insights about South American hydroclimate changes during Heinrich Stadials **M. C. Campos**, C. M. Chiessi, M. Prange, S. Mulitza, H. Kuhnert, A. Paul, I. M. Venancio, A. L. S. Albuquerque, F. W. Cruz, A. Bahr
7	The Miocene foreland basins of Northern Patagonia: sediment transfer systems from the Southern Andean to the Atlantic shelf **A. Bilmes**, L. D'Elia, J. Cuitiño, J. Bucher, M. López, M. García, R. Feo, J. Franzese
8	Testing long-term controls of sedimentary basin architecture in the broken foreland II – Modelling the spatial variability of the strata **M. Vallati**, M. Mutti, G. Winterleitner
9	Insights on the late Cenozoic evolution of the Rio Grande foreland basin in South Mendoza province, Argentina **R. Feal**, M. Ghiglione, R. Ondrak, M. Strecker, F. Tapia, L. Giambiagi
10	Stratigraphic architecture in early stages of intermontane basin: the Miocene Calchaquí foreland, NW Argentina **C. E. del Papa**, P. Payrola, F. Hongn, H. Pingel, M. Do Campo, A. Lapiana, M. R. Strecker
11	Kinematically heterogeneous faulting in the configuration of Neogene Patagonian foreland basins: activation of pre-existing fabrics and strain partitioning **M. Garcia**, M. Lopez, J. Bucher, L. D'Elia, A. Bilmes, J. Franzese
12	Along-strike crustal strength gradient accounts for the GPS velocity field in the Southern Andes: evidence from scaled analogue experiments **J. O. Eisermann**, P. L. Göllner, U. Riller
13	The nature of the North-South change of the magnitude of tectonic shortening in Central Andes at Altiplano-Puna latitudes: a thermomechanical modeling approach **P. Michael**, S. Sobolev, S. Liu
14	Insights on the lithospheric density structure of the Southern Central Andes and their foreland **C. Rodriguez Piceda**, M. Scheck-Wenderoth, M. L. Gomez Dacal, J. Bott, C. Prezzi, M. Strecker
15	Late Pleistocene to Recent shortening rates in the broken foreland of NW Argentina: New observations from the intermontane Cafayate Valley, 26° S lat. **S. Figueroa**, J. Weiss, F. Hongn, L. Elias, L. Escalante, G. Aranda, M. R. Strecker
16	Quaternary deformation at the Lerma Valley, Northwestern Argentina L. I. Elías, **C. Montero Lopez**, E. J. Criado Sutti, V. H. García, F. Hongn, F. Krüger, M. Strecker
17	Exhumation history of the Argentine eastern cordillera at 23°s **A. T. Lapiana**, E. Sobel, C. del Papa, C. Montero-López, S. Zapata
18	Neotectonics of the Andean Plateau (Puna) **G. Lauer-Dünkelberg**

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	Natural resources
19	Multi-physics Inversion of Gravity and Magnetic Data in Los Humeros Super Hot Geothermal System, México **J. Carrillo Lopez**, M. A. Perez-Flores, E. Schill
20	Lithium sources in northern Puna salars, Argentina. Evidence from Li and Sr isotope compositions **C. Sarchi**, A. Meixner, F. Lucassen, P. J. Caffe, R. Becchio, S. A. Kasemann
21	Constraining the magmatic-hydrothermal fluid evolution from proximal to distal settings by fluid inclusion and isotopic analyses of ore and gangue minerals and numerical modelling **M. Stoltnow**, V. Lüders, P. Weis, R. L. Romer
22	Water chemistry in Somún Cura region, Rio Negro and Chubut Provinces, Argentina **C. Parica**, M. Remesal
23	Isotopic (Nd-Sr-Pb) signature of the diamictitic iron formations from the Neoproterozoic Macaúbas Group, Araçuaí orogen, SE Brazil **F. Vilela**, A. C. Pedrosa Soares, F. Lucassen, S. Kasemann
24	Fluid inclusion and stable isotope geochemistry of rare-metal pegmatites, Sierra Grande de San Luis, Argentina **A. van den Kerkhof**, G. Sosa, V. Lüders, T. Montenegro
25	LCT and NYF pegmatites as an indicator for the magmatic evolution of the Las Chacras Batholith, central Argentina **E. Ribacki**, U. Altenberger, R. Trumbull, M. Lopez de Luchi
26	First qualitative observations and interpretation of fluid and melt inclusions from Capoeirana and Nova Era emerald deposits, Minas Gerais, Brazil **I. Pintea**, H. A. Horn
27	Presence of critical metals (Sc and REE) in laterites from ophiolitic Moa-Baracoa complex, Cuba. An investiment opportunity for EU? **G. Orozco**, A. Carballo, J. N. Muñoz
	Other topics
28	Metal accumulation in surface sediment of the urban and industrial coastal area of the municipality of Moa (Cuba): distribution and pollution assessment **Y. Cervantes Guerra**, H.-J. Gursky, A. Rodríguez, A. Pierra
29	Dam Collapse: the case of Brumadinho – 2019 (Brumadinho, Minas Gerais – Brazil) **J. Oliveira**, P. W. Oliveira
30	The new binational Argentinian-German master's program "Applied Geothermics" (San Juan/Bochum) **S. Wohnlich**, N. Mendoza, J. Schreuer, A. Banning, C. G. Fernandez, M. A. Pittaluga
31	Geologic recognition of the Eocene Los Corros fossiliferous level (Esmeraldas formation, middle Magdalena valley, Colombia) L. J. Ordoñez, **G. D. Patarroyo Camargo**
32	Analysis of diversification histories in extinct carnivorous marsupials (Sparassodonta, Metatheria) using a Bayesian framework **S. Tarquini**, S. Ladevèze, F. Prevosti