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## Vegacenter publication list 2017 – May 2021

- 036 Zahajská, P., Olid, C., Stadmark, J., Fritz, S.C., Opfergelt, S., Conley, D.J. (2021) Modern silicon dynamics of a small high-latitude subarctic lake. *Biogeosciences*, **18**, 2325 – 2345.
- 035 Boethius, A., Kjällquist, M., Kielman-Schmitt, M., Ahlström, T., Larsson, L. (2021) Early Holocene Scandinavian foragers on a journey to affluence: Mesolithic fish exploitation, seasonal abundance and storage investigated through strontium isotope ratios by laser ablation (LA-MC-ICP-MS). *PLoS ONE*, **16 (1)**, e0245222.
- 034 Glykou, A., Lougas, L., Piliciauskiene, G., Schmölcke, U., Eriksson, G., Liden, K. (2021) Reconstructing the ecological history of the extinct harp seal population of the Baltic Sea. *Quaternary Science Reviews*, **251**, 106701.
- 033 Rohtla, M., Silm, M., Tulonen, J., Paiste, P., Wickström, H., Kielman-Schmitt, M., Kooijman, E., Vaino, V., Eschbaum, R., Saks, L., Verliin, A., Vetemaa, M. (2021) Conservation restocking of the imperilled European eel does not necessarily equal conservation. *ICES Journal of Marine Science*, **78 (1)**, 101 – 111.
- 032 Billström, K., Broman, C., Larsson, A., Schersten, A., Schmitt, M. (2020) Sandstone-hosted Pb-Zn deposits along the margin of the Scandinavian Caledonides and their possible relationship with nearby Pb-Zn vein mineralisation. *Ore Geology Reviews*, **127**, 103839.
- 031 Tuoriniemi, J., Holbrook, T.R., Cornelis, G., Schmitt, M., Stärk, H.-J., Wagner, S. (2020) Measurement of number concentrations and sizes of Au nano-particles spiked into soil by laser ablation single particle ICPMS. *Journal of Analytical Atomic Spectroscopy*, **35**, 1678 – 1686.
- 029 Drake, H., Kooijman, E., Kielman-Schmitt, M. (2020) Using  $^{87}\text{Sr}/^{86}\text{Sr}$  LA-MC-ICP-MS transects within modern and ancient calcite crystals to determine fluid flow events in deep granite fractures. *Geosciences*, **10**, 345.
- 028 Boethius, A., Ahlström Arcini, C., Kielman-Schmitt, M., Andersson G. (2020) Nya rön om Birkaflickan. *Förnvänner*, **115**, 279 – 284.
- 027 Johansson, Å. (2020) The Paleoproterozoic Hedesunda granite complex, east-central Sweden, a composite intrusion. *International Journal of Earth Sciences*, **109**, 1991 – 2022.

- 026 Warlo, M., Wanhainen, C., Martinsson, O., Karlsson, P. (2020) Mineralogy and character of the Liikavaara Östra Cu-(W-Au) deposit, northern Sweden. *GFF*, **142**, 169 – 189.
- 025 Bukała, M., Majka, J., Walczak, K., Włodek, A., Schmitt, M., Zagórska, A. (2020) U-Pb zircon dating of migmatitic paragneisses and garnet amphibolite from the high pressure Seve Nappe Complex in Kittelfjäll, Swedish Caledonides. *Minerals*, **10** (4), 295.
- 024 Fontorbe, G., Frings, P.J., De La Rocha, C.L., Hendry, K.R., Conley, D.J. (2020) Constraints on Earth system functioning at the Paleocene-Eocene thermal maximum from the marine silicon cycle. *Paleoceanography and Paleoclimatology*, **35** (5), e2020PA003873.
- 023 Tillberg, M., Drake, H., Zack, T., Kooijman, E., Whitehouse, M.J., Åström, M.E. (2020) *In situ* Rb-Sr dating of slickenfibres in deep crystalline basement faults. *Scientific Reports*, **10**, 562.
- 022 Hirst, C., Andersson, P.S., Kooijman, E., Schmitt, M., Kutscher, L., Maximov, T., Mört, C.-M., Porcelli, D. (2020) Iron isotopes reveal the sources of Fe-bearing particles and colloids in the Lena River basin. *Geochimica et Cosmochimica Acta*, **269**, 678 – 692.
- 021 Dekov, V.M., Darakchieva, V.Y., Billström, K., Garbe-Schönberg, C.D., Kamenov, G.D., Gallinari, M., Dimitrov, L., Ragueneau, O., Kooijman, E. (2020) Element enrichment and provenance of the detrital component in Holocene sediments from the western Black Sea. *Oceanologia*, **62** (2), 139 – 163.
- 020 Drake, H., Roberts, N.M.W., Heim, C., Whitehouse, M.J., Siljeström, S., Kooijman, E., Broman, C., Ivarsson, M., Åström, M.E. (2019) Timing and origin of natural gas accumulation in the Siljan impact structure, Sweden. *Nature communications*, **10** (1), 1 – 14.
- 019 Ravindran, A., Mezger, K., Balakrishnan, S., Kooijman, E., Schmitt, M., Berndt, J. (2020) Initial  $^{87}\text{Sr}/^{86}\text{Sr}$  as a sensitive tracer of Archaean crust-mantle evolution: Constraints from igneous and sedimentary rocks in the western Dharwar Craton, India. *Precambrian Research*, **337**, 105523.
- 018 Zhang, Z., Sun, X., Dai, M., Cao, Z., Fontorbe, G., Conley, D.J. (2019) Impact of human disturbance on the biogeochemical silicon cycle in a coastal sea revealed by silicon isotopes. *Limnology and Oceanography*, **00**, 1 – 14.
- 017 Tillberg, M., Ivarsson, M., Drake, H., Whitehouse, M.J., Kooijman, E., Schmitt, M. (2019) Re-Evaluating the Age of Deep Biosphere Fossils in the Lockne Impact Structure. *Geosciences*, **9** (5), 202.
- 016 Walczak, K., Cuthbert, S., Kooijman, E., Majka, J., Smit, M.A. (2019) U-Pb zircon age dating of diamond-bearing gneiss from Fjørtoft reveals

- repeated burial of the Baltoscandian margin during the Caledonian Orogeny. *Geological Magazine*, **156** (11), 1949 – 1964.
- 015 Schoelynck, J., Subalusky, A.L., Struyf, E., Dutton, C.L., Unzué-Belmonte, D., Van de Vijver, B., Post, D.M., Rosi, E.J., Meire, P., Frings, P. (2019) Hippos (*Hippopotamus amphibius*): The animal silicon pump. *Science Advances*, **5**, No. 5.
- 014 Cutts, J.A., Smit, M.A., Kooijman, E., Schmitt, M. (2019) Two-stage cooling and exhumation of deeply subducted continents. *Tectonics*, **38**-3, 863 – 877.
- 013 Krall, L., Evins, L.Z., Kooijman, E., Whitehouse, M.J., Tullborg, E.-L. (2019) Tracing the palaeoredox conditions at Forsmark, Sweden, using uranium mineral geochronology. *Chemical Geology*, **506**, 68 – 78.
- 012 Troll, V.R., Weis, F.A., Jonsson, E., Andersson, U.B., Afshin Majidi, S., Högdahl, K., Harris, C., Millet, M.-A., Saravanan Chinnasamy, S., Kooijman, E., Nilsson, K. (2019) Global Fe–O isotope correlation reveals magmatic origin of Kiruna-type apatite-iron-oxide ores. *Nature Communications*, **10**, 1712.
- 011 Bjørlykke, A., Bingen, B., Billström, K., Kooijman, E. (2018) The sandstone-hosted Osen lead deposit, Norway: new Pb isotope evidence for sourcing in the underlying granitoid basement. *Norwegian Journal of Geology*, **98**-4.
- 010 Sun, X., Mört, C.-M., Porcelli, D., Kutscher, L., Hirst, C., Murphy, M.J., Maximov, T., Petrov, R.E., Humborg, C., Schmitt, M., Andersson, P.S. (2018) Stable silicon isotopic compositions of the Lena River and its tributaries: Implications for silicon delivery to the Arctic Ocean. *Geochimica et Cosmochimica Acta*, **241**, 120 – 133.
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- 008 Emo R.B., Smit, M.A., Schmitt, M., Kooijman, E., Scherer, E.E., Sprung, P., Bleeker, W., Mezger, K. (2018) Evidence for evolved Hadean crust from Sr isotopes in apatite within Eoarchean zircon from the Acosta Gneiss Complex. *Geochimica et Cosmochimica Acta*, **235**, 450 – 462.
- 007 Glykou, A., Eriksson, G., Storå, J., Schmitt, M., Kooijman, E., Lidén, K. (2018) Intra- and inter-tooth variation in strontium isotope ratios from prehistoric seals by laser ablation multi-collector inductively coupled plasma mass spectrometry. *Rapid Communications in Mass Spectrometry*, **32**, 1215 – 1224.

- 006 Robinson, F.A., Pease, V., Whitehouse, M.J., Kooijman, E. (2018) Preliminary detrital zircon signatures from the southern Asir terrane, Saudi Arabia: A link to Yemen or the Nubian Shield? *Precambrian Research*, **311**, 247 – 261.
- 005 Skublov, S.G., Krasotkina, A.O., Makeyev, A.B., Rizvanova, N.G., Kooijman, E. (2018) The first data on the U-Pb age (TIMS and LA-ICP-MS) of rutile from the Ichetju Polymimetal Occurrence, The Middle Timan. *Journal of Mining Institute*, **232**, 357 – 363.
- 004 Nord, A.G., Tronner, K., Billström, K., Asp, M., Lundmark, E., Björling Olausson, K. (2017) Pigmentanalys av medeltida muralmålningar i sju norrlandskyrkor. *Fornvännen*, **122**, 216 – 226.
- 003 Drake, H., Heim, C., Roberts, N.M.W., Zack, T., Tillberg, M., Broman, C., Ivarsson, M., Whitehouse, M.J., Åström, M.E. (2017) Isotopic evidence for microbial production and consumption of methane in the upper continental crust throughout the Phanerozoic eon. *Earth and Planetary Science Letters*, **470**, 108 – 118.
- 002 Grasse, P., Brzezinski, M.A., Cardinal, D., De Souza, G.F., Andersson, P., Closset, I., Cao, Z., Dai, M., Ehlert, C., Estrade, N., François, R., Frank, M., Jiang, G., Jones, J.L., Kooijman, E., Liu, Q., Lu, D., Pahnke, K., Ponzevera, E., Schmitt, M., Sun, X., Sutton, J.N., Thil, F., Weis, D., Wetzel, F., Zhang, A., Zhangn, J., Zhang, Z. (2017) GEOTRACES inter-calibration of the stable silicon isotope composition of dissolved silicic acid in seawater. *Journal of Analytical Atomic Spectroscopy*, **32**, 562 – 578.
- 001 Nord, A.G., Tronner, K., Billström, K., Strandberg Zerpe, B. (2017) Analysis of mediaeval Swedish paintings influenced by Russian-Byzantine art. *Journal of Cultural Heritage*, **23**, 162 – 169.