

A synthetic ice core approach to estimate ion relocation in an ice field site experiencing periodical melt : a case study on Lomonosovfonna, Svalbard

Vega, Carmen Paulina; Pohjola, Veijo A.; Beaudon, Emilie; **Martma, Tõnu** The cryosphere 2016 / p. 961-976 : ill
<https://doi.org/10.5194/tc-10-961-2016>

Antarctic Ice Rises as potential ice core drill sites - examples from Fimbul Ice Shelf, Dronning Maud Land

Vega, Carmen Paulina; Isaksson, Elisabeth; Divine, Dmitry V.; **Martma, Tõnu** IPICS 2016 : abstracts 2016 / p. [128]
<https://static1.squarespace.com/static/5459b25de4b00ee921cd006d/t/56dce081c2ea51eadac2f4e1/1457315995517/IPICS+2016+-+Abstracts.pdf>

Anthropogenic transformation of the ecological functioning of small hard-water lakes : analysis of sedimentary pigments and stable isotopes

Mikomägi, Annika; **Martma, Tõnu** ASLO 2017 : Mountains to the Sea : Hawaii Convention Center, Honolulu, Hawaii, 26 February - 3 March 2017 / [1] p <http://www.sgmeet.com/aslo/honolulu2017/viewabstract.asp?AbstractID=29652>

Application of carbon isotopes to the study of the Ordovician and Silurian of the Baltic

Martma, Tõnu 2006 <https://digi.lib.ttu.ee/i/?107> https://www.ester.ee/record=b2209327*est

Assessing hydrochemical interactions between humic-rich stream and shallow karst aquifer using natural tracers (Tuhala karst system, N Estonia) [Online resource]

Koit, Oliver; Barbera, Juan; Kiivit, Iiti-Kärt; **Martma, Tõnu** The European bi-annual conference on the hydrogeology of Karst and carbonate reservoirs : 2-6 Jul 2018, Besancon, France 2018 / p. 100 http://www.eurokarst.org/wp-content/uploads/2016/07/Proceedings_Eurokarst2018.pdf

Baltic Ordovician and Silurian chitinozoans : a quantitative stratigraphic synthesis

Antonovitš, Liina; Nestor, Viuu; Nõlvak, Jaak; Hints, Olle; Martma, Tõnu; Kiipli, Tarmo IGCP 591 : The Early to Middle Paleozoic Revolution : Closing Meeting, Ghent University, Belgium, 6-9 July 2016 : abstracts 2016 / p. 22

Baltic Sea water tritium and stable isotopes in 2016-2017

Jefanova, Olga; Mažeika, Jonas; Petrošius, Rimantas; Skuratovič, Žana; Paškauskas, Ričardas; **Martma, Tõnu; Liblik, Taavi;** Ezhova, Elena Isotopes in environmental and health studies 2020 / p. 193-204 <https://doi.org/10.1080/10256016.2020.1715969> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A bio- and chemostratigraphic search for the Mid-Ludfordian Carbon Isotope Excursion interval in the Ludlow of the Ohesaare core, Estonia

Kaljo, Dimitri; Martma, Tõnu; Märss, Tiiu; Nestor, Viuu-Kai; Viira, Viive Estonian journal of earth sciences 2022 / p. 44-60 : ill
<https://doi.org/10.3176/earth.2022.04> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A bio-chemostratigraphical test of the synchronicity of biozones in the upper Silurian of Estonia and Latvia with some implications for practical stratigraphy

Kaljo, Dimitri; Einasto, Rein; Martma, Tõnu; Märss, Tiiu; Nestor, Viuu-Kai; Viira, Viive Estonian journal of earth sciences 2015 / p. 267-283 : ill https://artiklid.elnet.ee/record=b2750825*est

Biological and geochemical records of human-induced eutrophication in a small hard-water lake

Mikomägi, Annika; Koff, Tiiu; **Martma, Tõnu;** Marzecova, Agata Boreal environment research 2016 / p. 513-527 : ill
<http://www.borenv.net/BER/ber215-6.htm>

Carbon isotope systematics of the Cambrian-Vendian aquifer system in the northern Baltic Basin : implications to the age and evolution of groundwater

Raidla, Valle; Kirsimäe, Kalle; **Vaikmäe, Rein; Kaup, Enn; Martma, Tõnu** Applied geochemistry 2012 / p. 2042-2052 : ill
<https://doi.org/10.1016/j.apgeochem.2012.06.005>

Contributions of autochthonous and allochthonous sources to dissolved organic matter in a large, shallow, eutrophic lake with a highly calcareous catchment

Toming, Kaire; Tuvikene, Lea; Vilbaste, Sirje; Agasild, Helen; Viik, Malle; **Kisand, Anu;** Feldmann, Tõnu; **Martma, Tõnu;** Jones, Roger I.; Nõges, Tiina Limnology and oceanography 2013 / p. 1259-1270 : ill

Controls on the 14C content of dissolved and particulate organic carbon mobilized across the Mackenzie River basin, Canada

Campeau, A.; Soerensen, A.L.; **Martma, Tõnu;** Akerblom, S.; Zdanowicz, Christian Global biogeochemical cycles 2020 / 15 p. : ill
<https://doi.org/10.1029/2020GB006671> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A d18O isoscape for the shallow groundwater in the Baltic Artesian basin

Raidla, Valle; Kern, Zoltan; **Pärm, Joonas; Ivask, Jüri; Martma, Tõnu; Vaikmäe, Rein** Journal of hydrology 2016 / p. 254-267 : ill
<https://doi.org/10.1016/j.jhydrol.2016.09.004>

Dating of glacial palaeogroundwater in the Ordovician-Cambrian aquifer system, northern Baltic Artesian Basin
Pärn, Joonas; Raidla, Valle; Ivask, Jüri; Kaup, Enn; Martma, Tõnu; Vaikmäe, Rein Applied geochemistry 2019 / p. 64-76 : ill
<https://doi.org/10.1016/j.apgeochem.2019.01.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Degradation of the climate signal preserved in Svalbard ice. Have the high Svalbard ice fields reached a tipping point?
Spolaor, Andrea; Barbaro, Elena; Burgay, F.; Martma, Tõnu IUGG 2019 : abstract book 2019 / [1] p., abstract: IUGG19-0417
<http://iugg2019montreal.com/abstract-book.html>

Discharge of meteoric water in the eastern Norwegian Sea since the last glacial period
Hong, WeiLi; Lepland, Aivo; Himmeler, Tobias; Martma, Tõnu Geophysical research letters 2019 / p. 8194-8204 : ill
<https://doi.org/10.1029/2019GL084237> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Do contemporary (1980-2015) emissions determine the elemental carbon deposition trend at Høltedahlfonna glacier, Svalbard?
Ruppel, Meri M.; Soares, Joana; Gallet, Jean-Charles; Isaksson, Elisabeth; Martma, Tõnu Atmospheric chemistry and physics 2017 / p. 12779-12795 : ill <https://doi.org/10.5194/acp-17-12779-2017>

Dolocretes in the uppermost Famennian to Mississippian siliciclastic deposits (Šķervelis Formation, Latvia)
Pipira, Daiga; Keipane, Lauma; Stinkulis, Girts; Virčava, Ilze; Martma, Tõnu Estonian journal of earth sciences 2023 / p. 211-225
<https://doi.org/10.3176/earth.2023.86>

Dolomitic palaeosols in a fluvial siliciclastic succession: Šķervelis Formation, Uppermost Famennian to Mississippian, south-west Latvia
Stinkulis, Girts; Pipira, Daiga; Keipane, Lauma; Virčava, Ilze; Martma, Tõnu IAS 2019 : 34th International Association of Sedimentologists 2019 Meeting of Sedimentology, Rome, Italy, 10-13 September 2019 / 1 p
<https://iasroma2019.exordo.com/programme/presentation/86>

Elemental and water-insoluble organic carbon in Svalbard snow: a synthesis of observations during 2007–2018
Zdanowicz, Christian; Gallet, Jean-Charles; Björkman, Mats B.; Larose, Catherine; Schuler, Thomas V.; Luks, Bartłomiej; Kozio, Krystyna; Spolaor, Andrea; Barbaro, Elena; Martma, Tõnu; Wideqvist, Ulla; Ström, Johan Atmospheric chemistry and physics 2021 / p. 3035-3057 : ill <https://doi.org/10.5194/acp-21-3035-2021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Environmental changes induced by human activities in the Northern Curonian Lagoon (Eastern Baltic) : diatoms and stable isotope data
Vaikutiene, Giedre; Skipityte, Raminta; Mažeika, Jonas; Martma, Tõnu Estonian journal of earth sciences 2017 / p. 93-108 : ill
<https://doi.org/10.3176/earth.2017.07>

Estonian geological sections. Bulletin 6. Mehikoorma (421) Drill core / Eesti tugiläbilõiked. Bülletään 6. Mehikoorma (421) puursüdamik/ (67 lk, 1 CD; trükiarv 500) : [2005. a. lõpetatud töö referaat]
Põldvere, Anne; Hints, Linda; Kallaste, Toivo; Kiipli, Tarmo; Kleesment, Anne-Liis; Mark-Kurik, Elga; Lääts, Jaanika; Martma, Tõnu; Männik, Peep; Nõlvak, Jaak; Šogenova, Alla; Viira, Viive Eesti Geoloogiakeskuse aastaraamat 2005 2006 / lk. 70-71
https://artiklid.elnet.ee/record=b2252828*est

Event-based observations of stable water isotopes in precipitation in Ny-Ålesund to support interpretation of Svalbard ice core data
Divine, Dmitry V.; Martma, Tõnu; Isaksson, Elisabeth IPICS 2016 : abstracts 2016 / p. [168]
<https://static1.squarespace.com/static/5459b25de4b00ee921cd006d/t/56dce081c2ea51eadac2f4e1/1457315995517/IPICS+2016+-+Abstracts.pdf>

Fluid source and methane-related diagenetic processes recorded in cold seep carbonates from the Alvheim channel, central North Sea
Cremiere, Antoine; Lepland, Aivo; Chand, Shyam; Martma, Tõnu Chemical geology 2016 / p. 16-33 : ill
<http://dx.doi.org/10.1016/j.chemgeo.2016.03.019>

Fossilisation by Mg-calcite: mineralized microbes in methane-derived carbonates from the Vestnesa Ridge, off western Svalbard
Himmeler, Tobias; Wirth, Richard; Martma, Tõnu; Bohrmann, Gerhard; Bünz, Stefan; Knies, Jochen; Lepland, Aivo Geophysical research abstracts 2018 / p. EGU2018-14291 <https://meetingorganizer.copernicus.org/EGU2018/EGU2018-14291.pdf>

45 years of ice core research in Estonia
Vaikmäe, Rein; Martma, Tõnu; Isaksson, Elisabeth The Willi Dansgaard Centenary Symposium 2022 / 1 l.

Free amino acids in the Arctic snow and ice core samples : potential markers for paleoclimatic studies
Barbaro, Elena; Spolaor, Andrea; Karroca, Ornella; Park, Ki-Tae; Martma, Tõnu Science of the total environment 2017 / p. 454-462 : ill <https://doi.org/10.1016/j.scitotenv.2017.07.041>

Hydrochemical patterns established in the Pleistocene preserved in the Ordovician-Cambrian aquifer system, northern Baltic Artesian Basin

Pärn, Joonas; Raidla, Valle; **Vaikmäe, Rein**; **Martma, Tõnu**; **Ivask, Jüri**; **Kaup, Enn**; Walraevens, K.; van Camp, M.; Aeschbach, A. International Symposium on Isotope Hydrology: Advancing the Understanding of Water Cycle Processes, CN-271 : 20-24 May 2019, Vienna, Austria 2019 <https://www.iaea.org/events/international-symposium-on-isotope-hydrology-2019>

Increased snow contribution to Arctic sea ice mass balance

Granskog, Mats A.; Rösel, A.; Provost, C.; Sennechal, N.; Dodd, P. A.; **Martma, Tõnu**; Leng, M. J. AGU Fall Meeting 2016 : San Francisco, California, 12-16 December 2016 / p. C22A-01 <http://adsabs.harvard.edu/abs/2016AGUFM.C22A..01G>

Influence of glacial water and carbonate minerals on wintertime sea-ice biogeochemistry and the CO₂ system in an Arctic fjord in Svalbard

Fransson, Agneta; Chierici, Melissa; Nomura, Daiki; **Martma, Tõnu** Annals of glaciology 2020 / p. 320-340 : ill <https://doi.org/10.1017/aog.2020.52> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Investigating the role of marine redox conditions in an early silurian mass extinction (ireviken event) : a deeper water perspective

Govert, Daniel J.; Young, Seth, A.; **Kaljo, Dimitri**; **Hints, Olle**; **Martma, Tõnu**; Owens, Jeremy D.; Noble, Paula J. Geological Society of America Abstracts with Programs, vol. 52, no. 2 2020 / paper no. 32-4 <https://doi.org/10.1130/abs/2020SE-344788>

Investigations of the unsaturated zone at two radioactive waste disposal sites in Lithuania

Skuratovič, Žana; Mažeika, Jonas; Petrošius, Rimantas; **Martma, Tõnu** Isotopes in environmental and health studies 2016 / p. 544-552 : ill <https://doi.org/10.1080/10256016.2015.1092968>

Isotoobid Eesti aluspõhja uurimisel : kemostratigraafia ja keskkond

Kaljo, Dimitri; **Martma, Tõnu** Teadusmõte Eestis (VI). Elu- ja maateadused : [artiklikogumik] 2011 / lk. 133-140 : ill

Isotoop-paleoklimatoloogia

Vaikmäe, Rein; **Kaup, Enn**; **Martma, Tõnu** Teadusmõte Eestis (VI). Elu- ja maateadused : [artiklikogumik] 2011 / lk. 177-184 : ill

Laborid ja muu teadusvarustus : [TTÜ Geoloogia Instituudi]

Aaloe, Aasa; **Kaljo, Dimitri**; **Kaup, Enn**; **Martma, Tõnu**; **Vassiljev, Jüri**; **Molodkov, Anatoli**; **Hints, Olle**; **Verš, Evelin**; **Voolma, Margus**; **Urtson, Kristjan**; **Männik, Peep**; **Alliksaar, Tiit** Geoloogia instituudi kuuskümmend viis aastat : loomine ja muutumised, inimesed ja teadus, meenutused ja suundumused 2012 / lk. 65-80 : fot

Late Pleistocene and Holocene groundwater flow history in the Baltic Artesian Basin : a synthesis of numerical models and hydrogeochemical data

Vaikmäe, Rein; **Pärn, Joonas**; Raidla, Valle; **Ivask, Jüri**; **Kaup, Enn**; **Martma, Tõnu** Estonian journal of earth sciences 2021 / p. 152-164 : ill <https://doi.org/10.3176/earth.2021.11> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Lessons learned from interdisciplinary snow research in Svalbard [Online resource]

Larose, Catherine; Barbaro, Elena; Björkman, Mats B.; **Martma, Tõnu** Where the Poles come together : abstract proceedings : Open Science Conference, 19 - 23 June 2018, Davos, Switzerland 2018 / p. 2299 <http://www.professionalabstracts.com/POLAR2018/iPlanner/#/presentation/2620> https://www.polar2018.org/uploads/2/4/6/0/24605948/polar2018_abstractproceedings.pdf

Linkage of diagenesis to depositional environments and stratigraphy in the northern part of the Baltic basin

Kleesment, Anne-Liis; Kirsimäe, Kalle; **Martma, Tõnu**; Šogenova, Alla; **Urtson, Kristjan**; Šogenov, Kazbulat Estonian journal of earth sciences 2012 / p. 15-32 : ill https://artiklid.elnet.ee/record=b2480019*est

Linkages between the circulation and distribution of dissolved organic matter in the White Sea, Arctic Ocean

Pavlov, Alexey K.; Stedmon, Colin A.; Semushin, Andrey V.; **Martma, Tõnu** Continental shelf research 2016 / p. 1-13 : ill <https://doi.org/10.1016/j.csr.2016.03.004>

Linking the progressive expansion of reducing conditions to a stepwise mass extinction event in the late Silurian oceans

Bowman, Chelise N.; Young, Seth, A.; **Kaljo, Dimitri**; **Hints, Olle**; **Martma, Tõnu** Geology 2019 / p. 968-972 : ill <https://doi.org/10.1130/G46571.1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Llandovery carbon isotope trend in Estonia - local versus global signatures and correlation

Martma, Tõnu; **Hints, Olle**; **Kaljo, Dimitri** Joint European Stable Isotope Users group Meeting : JESIUM 2016 : 4-9 September 2016, Ghent University, Ghent, Belgium : conference programme & book of abstracts 2016 / p. 206 http://www.jesium2016.eu/assets/bookabstracts_jesium2016_3108.pdf

Llandovery carbon isotope trend in Estonia revisited : local versus global signatures and correlation

Hints, Olle; **Kaljo, Dimitri**; **Männik, Peep**; **Martma, Tõnu**; Ostrov, K.; **Tonarova, Petra** IGCP 591 : The Early to Middle Paleozoic Revolution : Closing Meeting, Ghent University, Belgium, 6-9 July 2016 : abstracts 2016 / p. 46

Lomonosovfonna and Holtedahlfonna ice cores reveal east–west disparities of the Spitsbergen environment since AD 1700

Beaudon, Emilie; Moore, John C.; **Martma, Tõnu**; Pohjola, Veijo A.; Van de Wal, Roderik S. W.; Kohler, Jack; Isaksson, Elisabeth
Annals of glaciology 2013 / p. 1069-1083 : ill

Marine redox variability from Baltica during extinction events in the latest Ordovician–early Silurian

Young, Seth A.; Benayoun, Emily; Kozik, Nevin P.; **Hints, Olle; Martma, Tõnu**; Bergström, Stig M.; Owens, Jeremy D.
Palaeogeography, Palaeoclimatology, Palaeoecology 2020 / art. 109792 <https://doi.org/10.1016/j.palaeo.2020.109792> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Measurement report: Spatial variations in ionic chemistry and water-stable isotopes in the snowpack on glaciers across Svalbard during the 2015–2016 snow accumulation season

Barbaro, Elena; Koziol, Krystyna; Björkman, Mats B.; Vega, Carmen Paulina; Zdanowicz, Christian; **Martma, Tõnu** Atmospheric chemistry and physics 2021 / p. 3163-3180 <https://doi.org/10.5194/acp-21-3163-2021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Middle and Upper Ordovician carbon isotope stratigraphy in Baltoscandia: towards a regional chemostratigraphic standard

Ainsaar, Leho; **Kaljo, Dimitri; Martma, Tõnu**; Meidla, Tõnu The Seventh Baltic Stratigraphical Conference : 17-18 May 2008, Tallinn, Estonia : abstracts & field guide 2008 / p. 9

Modelling the regional climate and isotopic composition of Svalbard precipitation using REMOiso : a comparison with available GNIP and ice core data

Divine, D. V.; **Martma, Tõnu** Hydrological processes 2011 / p. 3748-3759 : ill <https://onlinelibrary.wiley.com/doi/full/10.1002/hyp.8100>

More about the Ordovician-Silurian transition beds at Mirny Creek, Omulev Mountains, NE Russia: carbon isotopes and conodonts

Kaljo, Dimitri; Männik, Peep; Martma, Tõnu; Nõlvak, Jaak Estonian journal of earth sciences 2012 / p. 277-294 : ill
https://artiklid.elnet.ee/record=b2552072*est

A multi-proxy approach to constrain reducing conditions in the Baltic Basin during the late Silurian Lau carbon isotope excursion

Bowman, Chelise N.; Them II, Theodore R.; Knight, Marisa D.; **Kaljo, Dimitri**; Eriksson, Mats E.; **Hints, Olle; Martma, Tõnu**; Owens, Jeremy D.; Young, Seth, A. Palaeogeography, palaeoclimatology, palaeoecology 2021 / art. 110624
<https://doi.org/10.1016/j.palaeo.2021.110624> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A multiproxy study of the Puhmu core section (Estonia, Upper Ordovician) : consequences for stratigraphy and environmental interpretation

Kaljo, Dimitri; Hints, Linda; Martma, Tõnu; Nõlvak, Jaak Estonian journal of earth sciences 2017 / p. 77-92 : ill
<https://doi.org/10.3176/earth.2017.08>

A 160,000-year-old history of tectonically controlled methane seepage in the Arctic

Himmler, Tobias; Sahy, Diana; **Martma, Tõnu; Lepland, Aivo** Science advances 2019 / art. eaaw1450, 8 p. : ill
<https://doi.org/10.1126/sciadv.aaw1450> TTÜ geoloogid: merepõhjast lekkinud metaani ja jääaegade vahel on seos [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ordovician and lowermost Silurian carbon isotopes

Martma, Tõnu Estonian geological sections / Geological Survey of Estonia 2006 / p. 14-15 : ill

Ordovician-Silurian boundary beds at Neitla, North Estonia: sedimentological and carbon isotopic signatures of events, some consequences

Kaljo, Dimitri; Einasto, R.; Martma, Tõnu The Seventh Baltic Stratigraphical Conference : 17-18 May 2008, Tallinn, Estonia : abstracts & field guide 2008 / p. 29

Overview of groundwater studies in the Baltic Artesian Basin at Tallinn University of Technology

Pärn, Joonas; Vaikmäe, Rein; Raidla, Valle; Martma, Tõnu; Ivask, Jüri; Kaup, Enn; Vallner, Leo; Purtschert, Roland; Gerber, Christoph; Aeschbach-Hertig, Werner; Weissbach, Therese 4th Annual Meeting of G@GPS IGCP 618 Project "Palaeogroundwater from past and present glaciated areas" : Estonia, 5-9 July 2015 : abstracts and field guide 2015 / p. 21-23

A 180 isoscape for the shallow groundwater in the Baltic Artesian Basin [Online resource]

Raidla, Valle; Kern, Zoltan; Babre, Alise; Erg, Katrin; **Ivask, Jüri**; Kohan, Balazs; **Martma, Tõnu**; Mokrik, Robert; **Pärn, Joonas; Vaikmäe, Rein** 43rd IAH Congress : Groundwater and Society : 60 years of IAH : September 25-29th 2016, Montpellier, France 2016 / p. [70], abstract no 1430 https://www.cfh-aih.fr/images/DOCS/2-Colloques/Colloque_2016_Montpellier/Site_web/IAH2016_AbstractBOOK.pdf

Oxygenated conditions in the aftermath of the Lomagundi-Jatuli Event: The carbon isotope and rare earth element signatures of the Paleoproterozoic Zaonega Formation, Russia

Kreitsmann, Timmu; Lepland, Aivo; Bau, M.; Prave, A.R.; Paiste, Kärt; Mänd, Kaarel; Sepp, Holar; **Martma, Tõnu; Romashkin, A.E.**; Kirsimäe, Kalle Precambrian research 2020 / art. 105855, 16 p. : ill <https://doi.org/10.1016/j.precamres.2020.105855> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Paired organic and carbonate carbon isotope records through the Middle and Upper Ordovician of Estonia

Hints, Olle; Kaljo, Dimitri; Lepland, Aivo; Liiv, Merlin; Martma, Tõnu; Ainsaar, Leho 13th International Symposium on the Ordovician System : Novosibirsk, Russia (July 19-22, 2019) : contributions 2019 / p. 75-77 <http://www.igcp653.org/wp-content/uploads/2019/07/ISOS13Proceedings.pdf>

Paleoredox changes associated with early silurian extinction events: new geochemical evidence from Baltoscandia

Benayoun, Emily; Young, Seth, A.; **Hints, Olle; Martma, Tõnu;** Owens, Jeremy D. Geological Society of America Abstracts with Programs, vol. 51, no. 3 2019 / paper no. 29-2 <http://dx.doi.org/10.1130/abs/2019SE-327066>

Paleowaters of glacial origin in the northern part of the Baltic Artesian Basin (BAB) [Online resource]

Pärn, Joonas; Raidla, Valle; Vaikmäe, Rein; Martma, Tõnu; Ivask, Jüri; Kaup, Enn 43rd IAH Congress : Groundwater and Society : 60 years of IAH : September 25-29th 2016, Montpellier, France 2016 / p. [123], abstract no 1524 https://www.cfh-aih.fr/images/DOCS/2-Colloques/Colloque_2016_Montpellier/Site_web/IAH2016_AbstractBOOK.pdf

Petrography and geochemistry of seep carbonates from the Barents Sea

Himmler, Tobias; **Martma, Tõnu;** Bünz, Stefan; Panieri, Giuliana; Knies, Jochen; **Lepland, Aivo** 34th IAS Meeting of Sedimentology - Abstract Submission and Conference Registration, 10-13 September 2019, Rome, Italy 2019 / 1 p <https://iasroma2019.exordo.com/programme/presentation/1235>

Petrography and geochemistry of seep carbonates from the Barents Sea

Himmler, Tobias; **Martma, Tõnu;** Bünz, Stefan; Panieri, Giuliana; Knies, Jochen; **Lepland, Aivo** IAS 2019 : 34th International Association of Sedimentologists 2019 Meeting of Sedimentology, Rome, Italy, 10-13 September 2019 2019 / 1 p <https://iasroma2019.exordo.com/programme/presentation/1235>

Pleistocene age paleo-groundwater inferred from waterstable isotope values in the central part of the Baltic Artesian Basin

Babre, Alise; Kalvans, Andis; Popovs, Konrads; Retike, Inga; Delina, Aija; **Vaikmäe, Rein; Martma, Tõnu** Isotopes in environmental and health studies 2016 / p. 706-725 : ill <http://dx.doi.org/10.1080/10256016.2016.1168411>

Přidolí carbon isotope trend and upper Silurian to lowermost Devonian chemostratigraphy based on sections in Podolia (Ukraine) and the East Baltic area

Kaljo, Dimitri; Martma, Tõnu; Grytsenko, Volodymyr; Brazauskas, Antanas; Kaminskas, Donatas Estonian journal of earth sciences 2012 / p. 162-180 : ill https://artiklid.elnet.ee/record=b2533830*est

Radiocarbon and other environmental isotopes in the groundwater of the sites for a planned new nuclear power plant in Lithuania

Mažeika, Jonas; **Martma, Tõnu;** Petrošius, Rimantas; Jakimavičiute-Maselienė, Vaidotė; Skuratovič, Žana Radiocarbon 2013 / p. 951-962 : ill

Reconstructing Late Ordovician carbon cycle variations

Pancost, Richard D; Freeman, Katherine H.; Herrmann, Achim D.; Patzkowsky, Mark E.; Ainsaar, Leo; **Martma, Tõnu** Geochimica et cosmochimica acta 2013 / p. 433-454 : ill

Redox zonation and organic matter oxidation in palaeogroundwater of glacial origin from the Baltic Artesian Basin

Pärn, Joonas; Affolter, Stephane; **Ivask, Jüri;** Kirsimäe, Kalle; **Martma, Tõnu; Raidla, Valle; Vaikmäe, Rein** Chemical geology 2018 / p. 149-161 : ill <https://doi.org/10.1016/j.chemgeo.2018.04.027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Role of a productive lake in carbon sequestration within a calcareous catchment

Nöges, Peeter; Cremona, Fabien; Laas, Alo; **Martma, Tõnu** Science of the total environment 2016 / p. 225-230 : ill <https://doi.org/10.1016/j.scitotenv.2016.01.088>

Sea ice dynamics influence halogen deposition to Svalbard

Spolaor, Andrea; Gabrieli, Jacopo; **Martma, Tõnu;** Kohler, Jack; Björkman, Mats B.; Isaksson, Elisabeth; Varin, Cristiano; Vallelonga, Paul; Plane, John M. C.; Barbante, Carlo The cryosphere 2013 / p. 1645-1658 : ill

Sea-ice chemistry and influence of glacial meltwater in a Spitsbergen Fjord [Online resource]

Fransson, Agneta; Chierici, Melissa; Nomura, Daiki; **Martma, Tõnu** Where the Poles come together : abstract proceedings : Open Science Conference, 19 - 23 June 2018, Davos, Switzerland 2018 / p. 933 <http://www.professionalabstracts.com/POLAR2018/iPlanner/#/presentation/1716> https://www.polar2018.org/uploads/2/4/6/0/24605948/polar2018_abstractproceedings.pdf

Snow contribution to first-year and second-year Arctic sea ice mass balance north of Svalbard

Granskog, Mats A.; Rösel, Anja; Dodd, Paul A.; Divine, Dmitry V.; Gerland, Sebastian; **Martma, Tõnu**; Leng, Melanie J. Journal of geophysical research : oceans 2017 / p. 2539-2549 : ill <http://dx.doi.org/10.1002/2016JC012398>

Snowmelt, glacial and atmospheric sources of mercury to a subarctic mountain lake catchment, Yukon, Canada
Zdanowicz, C.; Karlsson, P.; Beckholmen, I.; Roach, P.; **Martma, Tõnu** Geochimica et cosmochimica acta 2018 / p. 374–393 : ill
<https://doi.org/10.1016/j.gca.2018.06.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Spatial and temporal variability of net accumulation from shallow cores from Vestfonna ice cap (Nordaustlandet, Svalbard)

Beudon, Emilie; **Martma, Tõnu** Geografiska annaler. Series A, Physical geography 2011 / p. 287-299 : ill
<https://www.tandfonline.com/doi/abs/10.1111/j.1468-0459.2011.00439.x>

Spatial and temporal variability of sea-salts in ice cores and snow pits from Fimbul Ice Shelf, Antarctica [Online resource]

Vega, Carmen Paulina; Isaksson, Elisabeth; Divine, Dmitry V.; Schlosser, Elisabeth; **Martma, Tõnu**; Mulvaney, Robert; Eichler, Anja; Schwikowski, Margit Past Antarctic Ice Sheet Dynamics (PAIS) Conference : September 10-15th 2017, Trieste - Italy : [abstracts] 2017 / [2] p <http://www.scar-pais.org/index.php/conference>

Spatiotemporal assessment of humic substance-rich stream and shallow karst aquifer interactions in a boreal catchment of northern Estonia

Koit, Oliver; Barbera, Juan Antonio; Marandi, Andres; Terasmaa, Jaanus; Kiivit, Iiti-Kärt; **Martma, Tõnu** Journal of hydrology 2020 / art. 124238, 18 p. : ill <https://doi.org/10.1016/j.jhydrol.2019.124238> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Spring sea-ice evolution in Rijpfjorden (808°N), Svalbard, from in situ measurements and ice mass-balance buoy (IMB) data

Wang, Caixin; Shi, Liqiong; Gerland, Sebastian; Granskog, Mats A.; Renner, Angelika H. H.; Li, Zhijun; Hansen, Edmond; **Martma, Tõnu** Annals of glaciology 2013 / p. 253-260 : ill

Structural controls on seepage of thermogenic and microbial methane since the last glacial maximum in the Harstad Basin, southwest Barents Sea

Crémière, Antoine; Chand, Shyam; Sahy, Diana; Thorsnes, Terje; **Martma, Tõnu**; Noble, Stephen R.; Pedersen, Jon Halvard; Brunstad, Harald; **Lepland, Aivo** Marine and Petroleum Geology 2018 / p. 569-581 <https://doi.org/10.1016/j.marpetgeo.2018.07.010>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sulphur isotope composition of dissolved sulphate in the Cambrian–Vendian aquifer system in the northern part of the Baltic Artesian Basin

Raidla, Valle; Kirsimäe, Kalle; Ivask, Jüri; Kaup, Enn; Knöller, Kay; Marandi, Andres; **Martma, Tõnu**; Vaikmäe, Rein Chemical geology 2014 / p. 147-154 : ill

Surface mass balance and stable oxygen isotope ratios from shallow firn cores on Fimbulisen, East Antarctica

Schlosser, E.; **Martma, Tõnu** Annals of glaciology 2012 / p. 70-78 : ill

Surface mass balance and water stable isotopes derived from firn cores on three ice rises, Fimbul Ice Shelf, Antarctica

Vega, Carmen Paulina; Schlosser, Elisabeth; Divine, Dmitry V.; **Martma, Tõnu** The cryosphere 2016 / p. 2763-2777 : ill
<http://dx.doi.org/10.5194/tc-10-2763-2016>

Svalbard ice and snow as archives for climate and pollution

Isaksson, Elisabeth; Divine, Dmitry V.; **Martma, Tõnu** IPICS 2016 : abstracts 2016 / p. [127]
<https://static1.squarespace.com/static/5459b25de4b00ee921cd006d/t/56dce081c2ea51eadac2f4e1/1457315995517/IPICS+2016+-+Abstracts.pdf>

Svalbard ice cores studies threatened by rapid climate warming

Isaksson, Elisabeth; Divine, Dmitry V.; Gallet, Jean-Charles; Kohler, Jack; **Martma, Tõnu** Geophysical research abstracts 2019 / p. EGU2019-7727 <https://meetingorganizer.copernicus.org/EGU2019/EGU2019-7727.pdf>

Temporal evolution, petrography and composition of dolostones in the Upper Devonian Plavinas Regional Stage, southern Estonia and northern Latvia

Kleesment, Anne-Liis; Urtson, Kristjan; Kiipli, Tarmo; **Martma, Tõnu**; Pöldvere, Anne; Kallaste, Toivo; Šogenova, Alla; Šogenov, Kazbulat Estonian journal of earth sciences 2013 / p. 139-159 : ill https://artiklid.elnet.ee/record=b2624772*est

The frozen archives in a warming climate

Isaksson, Elisabeth; Hermansson, M.; Muir, D. C. G.; **Martma, Tõnu** Svalbard Science Conference 2019 : book of abstracts 2019 / p. 105 <https://www.forskningsradet.no/contentassets/f464e19d364c40b59170a1956a98e747/book-of-abstracts-ssc2019.pdf>

The Guttenberg carbon isotope excursion (GICE; Ordovician) in Estonia

Bauert, Heikki; Hints, Olle; Bauert, Garmen; Nõlvak, Jaak; Ainsaar, Leho; **Martma, Tõnu** 10th Baltic Stratigraphic Conference :

The Holocene isotopic record of aquatic cellulose from Lake Äntu Sinijärv, Estonia: Influence of changing climate and organic-matter sources

Street-Perrott, F. Alayne; Holmes, Jonathan A.; Robertson, Iain; Ficken, Katherine J.; Koff, Tiiu; **Martma, Tõnu** Quaternary science reviews 2018 / p. 68-83 : ill <https://doi.org/10.1016/j.quascirev.2018.05.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The intrusion of glacial melt-water and its influence on the geochemical evolution of groundwater in the Ordovician-Cambrian aquifer system in the northern part of the Baltic Artesian Basin (Estonia) [Online resource]

Pärn, Joonas; Raidla, Valle; Vaikmäe, Rein; Martma, Tõnu; Ivask, Jüri; Kaup, Enn; Mokrik, Robert International Symposium on Isotope Hydrology : Revisiting Foundations and Exploring Frontiers : 11-15 May 2015, Vienna, Austria : book of extended synopses : poster session 1 2015 / p. 39-40

The Llandovery-Wenlock boundary interval in west-central continental Estonia : an example from the Suigu (S-3) core section

Männik, Peep; Põldvere, Anne; **Nestor, Viu-Kai; Kallaste, Toivo; Kiipli, Tarmo; Martma, Tõnu** Estonian journal of earth sciences 2014 / p. 1-17 : ill https://artiklid.elnet.ee/record=b2663118*est

The recharge of glacial meltwater and its influence on the geochemical evolution of groundwater in the Ordovician-Cambrian aquifer system, northern part of the Baltic Artesian Basin

Pärn, Joonas; Raidla, Valle; Vaikmäe, Rein; Martma, Tõnu; Ivask, Jüri; Mokrik, Robert; Erg, Katrin Applied geochemistry 2016 / p. 125-135 : ill <https://doi.org/10.1016/j.apgeochem.2016.07.007>

Three global carbon isotope shifts in the Silurian of Podolia (Ukraine) : stratigraphical implications

Kaljo, Dimitri; Grytsenko, Volodymyr; **Martma, Tõnu; Mõtus, Mari-Ann** Estonian journal of earth sciences 2007 / 4, p. 205-220 : ill

Timescales of methane seepage on the Norwegian margin following collapse of the Scandinavian Ice Sheet

Cremiere, Antoine; **Lepland, Aivo;** Chand, Shyam; **Martma, Tõnu** Nature communications 2016 / p. 1-10 : ill
<http://dx.doi.org/10.1038/ncomms11509>

Tritis ir vandens stabilus izotopai baltijos juroje 2016-2017 metais

Mažeika, Jonas; Petrošius, Rimantas; Skuratovič, Žana; Jefanova, Olga; Paškauskas, Ričardas; **Martma, Tõnu; Liblik, Taavi;** Ezhova, Elena 12-oji nacionalinė jūros mokslų ir technologijų konferencija : Jūros ir krantų tyrimai 2019, 2019 gegužės 9–10d., Klaipėda 2019 / p. 125-128 http://apc.ku.lt/krantai2019/wp-content/uploads/2019/05/knygele_maketas_2019_20180426.pdf

Unsaturated zone investigations at the two radioactive waste disposal sites

Skuratovic, Zana; Mazeika, Jonas; Petrosius, Rimantas; **Martma, Tõnu** International Symposium on Isotope Hydrology: Revisiting Foundations and Exploring Frontiers, Vienna, Austria, 11 - 15 May 2015 : book of extended Synopses, poster session 2 2015 / p. 114-116 : joon

Upper Sandbian and lower Katian $\delta^{13}\text{C}$ chemostratigraphy in northern Baltoscandian basin reveals gaps and spatial heterogeneity in carbon isotope composition

Hints, Olle; Bauert, Heikki; Martma, Tõnu; Bauert, Garmen IGCP 591 : The Early to Middle Paleozoic Revolution : Closing Meeting, Ghent University, Belgium, 6-9 July 2016 : abstracts 2016 / p. 108

Upper Sandbian-lower Katian bio- and chemostratigraphy in the Pajevonys-13 core section, Lithuania

Hints, Linda; Paškevičius, Juozas; **Martma, Tõnu; Männik, Peep; Nõlvak, Jaak** Estonian journal of earth sciences 2016 / p. 85-97 : ill <http://dx.doi.org/10.3176/earth.2016.08>

Using high-resolution tritium profiles to quantify the effects of melt on two Spitsbergen ice cores

Van der Wel, L. G.; **Martma, Tõnu** Journal of glaciology 2011 / p. 1087-1097 : ill <https://research.rug.nl/en/publications/using-high-resolution-tritium-profiles-to-quantify-the-effects-of>

U-Th chronology and formation controls of methane-derived authigenic carbonates from the Hola trough seep area, northern Norway

Sauer, Simone; Cremiere, Antoine; Knies, Jochen; **Lepland, Aivo; Martma, Tõnu** Chemical geology 2017 / p. 164-179 : ill
<https://doi.org/10.1016/j.chemgeo.2017.09.004>

U-Th dating of seep carbonates reveals episodic methane release from the Vestnesa Ridge off west Svalbard over the last ~170,000 years

Himma, T.; Sahy, D.; **Martma, Tõnu; Lepland, Aivo** Vinterkonferansen 2019 : Bergen, January 7th-9th, 2019 : NGF abstracts and proceedings of the Geological Society of Norway 2019 / p. 37
https://www.geologi.no/konferanser/vinterkonferansen/item/download/72_6cdecc52529e2c144ddf98991fba2d8f

Variability of sea salts in ice and firn cores from Fimbul Ice Shelf, Dronning Maud Land, Antarctica

Vega, Carmen Paulina; Isaksson, Elisabeth; Schlosser, Elisabeth; Divine, Dmitry V.; **Martma, Tõnu** The Cryosphere 2018 / p. 1681-1697 : ill <https://doi.org/10.5194/tc-12-1681-2018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Variations in carbon isotope composition of microfossils and bulk organic matter from the Middle Ordovician through Wenlock (Silurian) in Estonia

Hints, Olle; Kaljo, Dimitri; Kaptein, Helja; Martma, Tõnu; Munnecke, Axel 10th Baltic Stratigraphic Conference : Checiny, 12-14 September 2017 : abstracts and field guide 2017 / p. 36-37
http://geo.uw.edu.pl/tl_files/publikacje/10th_Baltic_Stratigraphic_Conference_Abstracts_and_Field_Guide.pdf

Wintertime sea-ice chemistry and influence of glacial freshwater discharge during two contrasting years in a Spitsbergen fjord

Fransson, A.; Chierici, M.; Nomura, D.; **Martma, Tõnu** Goldschmidt Conference abstracts : 2016 2016 / p. 843
<http://goldschmidt.info/2016/uploads/abstracts/finalPDFs/A-Z.pdf>