

Output TOPSOIL scientific paper – peer reviewed (January 2021)

		Author(s)	Title (working title)	Planned Journal	expected date of submission
1.	BE	Vandevælde (or contractor/DELTARES)	Results from BE	Extended abstract for the SWIM 2020	2021
2.	DK	Sandersen, P., Kallesøe, A.J., Møller, I., Høyer, A.-S., Jørgensen, F., Pedersen, J., & Christiansen, A.V.	Utilizing the towed Transient ElectroMagnetic method (tTEM) for achieving unprecedented near-surface detail in geological mapping	Engineering Geology	Submitted
3.	DK	Maurya, P.K., Christiansen, A.V., Pedersen, J. & Auken, E.	High resolution 3D subsurface mapping using a towed transient electromagnetic system – tTEM: case studies	Near Surface Geophysics, June 2020, Vol 18 (3), 249-259 <a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/nsg.12094">https://onlinelibrary.wiley.com/doi/abs/10.1002/nsg.12094</a>	Published
4.	DK	Esben Auken, Jesper Bjergsted Pedersen and Pradip Kumar Maurya	A new towed geophysical transient electromagnetic system for near-surface mapping	Environmental geophysics, June 2018 Doi: 10.1071/PVv2018n194p33 <a href="http://www.hgg.geo.au.dk/Papers_EndNote/1661829109/AUKEN2018.pdf">http://www.hgg.geo.au.dk/Papers_EndNote/1661829109/AUKEN2018.pdf</a>	Published
5.	DK	Esben Auken, Nikolaj Foged, Jakob Juul Larsen, Knud Valdemar Trøllund Lassen, Pradip Kumar Maurya, Søren Møller Dath, and Tore Tolstrup Eiskjær	tTEM — A towed transient electromagnetic system for detailed 3D imaging of the top 70 m of the subsurface	GEOPHYSICS, VOL. 84, NO. 1 (JANUARY-FEBRUARY 2019); P. E13–E22. Doi: 10.1190/GEO2018-0355.1 <a href="http://www.hgg.geo.au.dk/Papers_EndNote/1351312634/AUKEN2018.pdf">http://www.hgg.geo.au.dk/Papers_EndNote/1351312634/AUKEN2018.pdf</a>	Published
6.	DK	Kidmose, J., T.O. Sonnenborg, H.J. Henriksen, P. Sandersen, A. Kallesøe	Effect of past and future changes in climate and groundwater abstraction on an urban catchment	Journal of Hydrology	End 2019
7.	DK	Rasmussen, P., J. Kidmose, T.O. Sonnenborg, H.J. Henriksen, P. Sandersen, A. Kallesøe	Comparing alternative climate adaption measures to counteract high groundwater levels	Hydrogeology Journal	Spring 2021
8.	GE	González, E., Deus, N, Elbracht, J., Rahman, M.A., Siemon, B., Steuer, A. Wiederhold, H.	Modellierung der küstennahen Grundwasserversalzung in Niedersachsen abgeleitet aus aereoelektromagnetischen Daten	Grundwasser	Accepted (GRUN-D-20-00016)

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9.	GE	González, E., Deus, N., Elbracht, J., Rahman, M.A., Wiederhold, H	Current and future state of groundwater salinization in the northern Elbe-Weser region	Grundwasser	Submitted (GRUN-D-20-00034)
10.	GE	Rahman, M.A., Zhao, Q., Wiederhold, H., Skibbe, N., González, E., Deus, N., Siemon, B., Kirsch, R., Elbracht, J.	Coastal groundwater systems: mapping chloride distribution from borehole and geophysical data	Grundwasser	Accepted (GRUN-D-20-00026)
11.	GE	Fishkis, O., Noell, U., Diehl, L, Jaquemotte, J., Lamparter, A., Stange, C.F., Burke, V., Koeniger, P., Stadler, S.	Multitracer irrigation experiments for assessing the relevance of preferential flow for non-sorbing solute transport in agricultural soil.	Geoderma 371 (2020) 114386 <a href="https://doi.org/10.1016/j.geoderma.2020.114386">https://doi.org/10.1016/j.geoderma.2020.114386</a>	Published
12.	GE	Möller, A.	New insights into the driving factors behind long-term soil organic carbon dynamics in soils of Germany.	Soil	Rejected (2020)
13.	GE	Schulz, E. et al. (contractor CAH)	Results from GE-4 (groundwater monitoring system and to identify measures to adapt to climate change by allowing increased groundwater extraction for agricultural irrigation under the premises of WFD-requirements)	Grundwasser	2019/2020
14.	GE	Grinat, Ronczka et al.	Site selection for saltwater intrusion monitoring with SAMOS	GRUNDWASSER	2020
15.	GE	Wiederhold et al.	Near surface seismic applications for groundwater relevant structures	GRUNDWASSER	2020
16.	NL	Erik Querner	Groundwater model study for the topsoil pilot NL1.1 Fresh Water Drentse Aa	Water Resources Management	2 <sup>nd</sup> Quartal 2020
17.	DK	Lane Jr, J.W., Briggs, M.A., Maurya, P.K., White, E.A., Pedersen, J.B., Auken, E., Terry, N., Minsley, B., Kress, W., LeBlanc, D.R., Adams, R., Johnson, J.D.	Characterizing the diverse hydrogeology underlying rivers and estuaries using new floating transient electromagnetic methodology	Science of the Total Environment 740 (2020) 140074 <a href="https://doi.org/10.1016/j.scitotenv.2020.140074">https://doi.org/10.1016/j.scitotenv.2020.140074</a>	Published

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18.	GE	González, E., Deus, N., Elbracht, J. & Siemon, B.	Structural modeling of the northern Elbe-Weser region and the Lamstedt Push Moraine (Lower Saxony, Germany) supported by helicopter borne electromagnetics (HEM)	EGQSJ - Quaternary Science Journal	Submitted (egqsj-2020-26)
19.	GE	Tamiru, G., Wiederhold, H. *)	P- and S-wave reflection profiling for near-surface investigation of glacial sediments.	Journal of Applied Geophysics 183 (2020) 104216 <a href="https://doi.org/10.1016/j.jappgeo.2020.104216">https://doi.org/10.1016/j.jappgeo.2020.104216</a>	Published

\*) this paper is not a product of the TOPSOIL project itself, but a late output of the previous project BURVAL. Since it shows the different methods and how they work together well, it is also listed here.

Not peer reviewed

		Author(s)	Title (working title)	Planned Journal	expected date of submission
20.	NL	Waterloo M.J., Velstra J., Hoogland F., Gevaert A.I. (2019).	Assessment of the effect of water quality measures under current and future climate and farming scenarios using a two-step modelling approach	<a href="https://www.luwq2019.dk/upload/LuWQ2019_Volume_of_Abstracts_22-May-2019.pdf">https://www.luwq2019.dk/upload/LuWQ2019_Volume_of_Abstracts_22-May-2019.pdf</a>	Published
21.	NL	RPS	Waterkwaliteit jaar 2040 in beeld - Innoverende route naar klimaatbestendige Drentse gebieden	Respons online magazine, <a href="https://rpsrespons.h5mag.com/editie01_april_2020_dat_aspecial/waterkwaliteit_2040_in_beeld">https://rpsrespons.h5mag.com/editie01_april_2020_dat_aspecial/waterkwaliteit_2040_in_beeld</a>	Published
22.	UK	Borowski-Maaser, I., Nailon, P., Pedersen, J.B.	Managing groundwater in a shifting climate: the TOPSOIL project	RSA Regional Studies Association online journal, 2020, <a href="https://regions.regionalstudies.org/ezone/article/managing-groundwater-in-a-shifting-climate/">https://regions.regionalstudies.org/ezone/article/managing-groundwater-in-a-shifting-climate/</a>	Published