

OJALA, A.E.K.

LIST OF PUBLICATIONS

The most important publications related to UNCLOSE research plan are highlighted with yellow

A) Peer-reviewed scientific articles

- Alenius, T., Mikkola, E. & **Ojala, A.E.K.**, 2008. History of agriculture in Mikkeli Orijärvi, eastern Finland as reflected by palynological and archaeological data. *Vegetation History and Archaeobotany* 17, 171-183.
- Alenius, T., Haggrén, G., Oinonen, M., **Ojala, A.E.K.** & Pitkänen, R.-L., 2014. The history of settlement on the coastal mainland in Southern Finland. Palaeoecological, archaeological, and etymological evidence from Lohjansaari Island, Western Uusimaa, Finland. *Journal of Archaeological Science* 47, 99-112.
- Alenius, T., Mönkkönen, T., Holmqvist, E. & **Ojala, A.E.K.**, 2017. Neolithic land use in the Northern Boreal Zone: High-resolution multiproxy analyses from Lake Huhdasjärvi, south-eastern Finland. *Vegetation History and Archaeobotany* 26, 469-486.
- Arpe, L., Kurki, E., Wooller, M.J., Luoto, T., Zajaczkowski, M., **Ojala, A.E.K.**, 2017. A 5500-year oxygen isotope record of high-arctic environmental change from southern Spitsbergen. The Holocene, in press, <https://doi.org/10.1177/0959683617715698>
- Giesecke, T., Bjune, A.E., Chiverrell, R.C., Seppä, H., **Ojala, A.E.K.** & Birks, H.J.B., 2008. Exploring Holocene continentality changes in Fennoscandia using present and past tree distributions. *Quaternary Science Reviews* 27, 1296-1308.
- Giesecke, T., Miller, P.A., Sykes, M.T., **Ojala, A.E.K.**, Seppä, H., Bradshaw, R.H.W., 2010. The effect of past changes in inter-annual temperature variability on tree distribution limits. *Journal of Biogeography* 37, 1349-1405.
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- Jenny, J.-P., Francus P., Normandeau, A., Lapointe, F., Perga, M.-E., **Ojala, A.E.K.**, Schimmelmann, A. & Zolitschka, B., 2016. Anthropogenic pressure causes worldwide spread of hypoxia in lakes. *Global Change Biology* 22, 1481-1489.
- Jenny, J.-P., Normandeau, A., Francus, P., Taranu, Z.E., Gregory-Eaves, I., Lapointe, F., Jautzy, J., **Ojala, A.**, Dorioz, J.-M., Schimmelmann, A. & Zolitschka, B., 2016. Growing urbanization caused the spread of hypoxia in European lakes, not agriculture intensification. *PNAS* 113, 12655-12660.
- Johnson, M., Fredin, O., **Ojala, A.E.K.** & Peterson, G., 2015. Unraveling Scandinavian geomorphology: The LiDAR revolution. *GFF* 137, 245-251.
- Korkonen, S., **Ojala, A.E.K.**, Weckström, J. & Kosonen, E., 2017. Seasonality of chrysophyte cysts and diatom deposition in varved lake Nautajärvi (Finland) – implications for paleolimnological studies. *Journal of Limnology* 76, 366-379.
- Kotilainen, A., Kankainen, T., **Ojala, A.E.K.** & Winterhalter B., 2001. Palaeomagnetic dating of a late Holocene sediment core from the Northern Central Baltic Sea. *Baltica* 14, 67-73.
- Kubischta, F., Knutsen, K., **Ojala, A.E.K.** & Salonen, V.-P. 2011. Holocene benthic foraminiferal record from a high-arctic fjord, Nordaustlandet, Svalbard. *Geografiska Annaler* 93, 227-242.
- Luoto, T. & **Ojala, A.E.K.** 2014. Paleolimnological assessment of ecological integrity and eutrophication history for Lake Tiiläänjärvi (Askola, Finland). *Journal of Paleolimnology* 51, 455-468.
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- Luoto, T.P. & **Ojala, A.E.K.**, 2017. Meteorological validation of chironomids as a paleotemperature proxy using varved lake sediments. *The Holocene* 27, 870-878.
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- Nevalainen, L., Rantala, M., Luoto, T., Rautio, M. & **Ojala, A.E.K.**, 2015. Ultraviolet radiation exposure of a high arctic lake in Svalbard during the Holocene. *Boreas* 44, 401-412.
- Nevalainen, L., Rantala, M.V., Luoto, T., **Ojala, A.E.K.** & Rautio, M. 2016. Long-term changes in pigmentation of arctic *Daphnia* provide potential for reconstructing aquatic UV exposure. *Quaternary Science Reviews* 144, 44-50.
- Mäkinen, J., **Ojala, A.E.K.**, 2013. Sedimentation dynamics and metal loading in Lake Pyhäjärvi, Finland. *Journal of Paleolimnology* 50, 1-13.
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- Ojala, A.E.K., 2011. Construction suitability and 3D architecture of the fine-grained deposits in southern Finland – examples from Espoo. *Geological Survey of Finland, Special Paper 49*, 126-136.
- Ojala, A.E.K., 2012. The Late Quaternary climate history of the Northern Hemisphere. In: Haapala, I. (ed.), *From the Earth's core to outer space*. Springer, pp. 199-218.
- Ojala, A.E.K., 2016. Appearance of De Geer moraines in southern and western Finland – implications for reconstructing glacier retreat dynamics. *Geomorphology* 255, 16–25.
- Ojala, A.E.K. & Saarnisto, M., 1999. Comparative varve counting and magnetic properties of the 8400-yr sequence of an annually laminated sediment in Lake Valkiajärvi, Central Finland. *Journal of Paleolimnology* 22, 335-348.
- Ojala, A.E.K., Saarinen, T. & Salonen, V.-P., 2000. Preconditions for the formation of annually laminated lake sediments in southern and central Finland. *Boreal Environment Research* 5, 243-255.
- Ojala, A.E.K. & Francus, P., 2002. X-ray densitometry vs. BSE -image analysis of thin-sections: a comparative study of varved sediments of Lake Nautajärvi, Finland. *Boreas* 31, 57-64.
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- Ojala, A.E.K., Hirvas, H., Lintinen, P. & Vanhala, H., 2007. Neoglacial activity in Finland: dating the evidence from glaciolacustrine sediment sequences in the Halti-Ridnitsohokka region. *The Holocene* 17, 79-88.
- Ojala, A.E.K. & Palmu, J.-P., 2007. Sedimentological characteristics of Late-Weichselian–Holocene deposits of the Suurpelto area in Espoo, southern Finland. *Geological Survey of Finland, Special Paper 46*, 147-156.
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- Ojala, A.E.K., Palmu, J.-P., Åberg, A., Åberg, S. & Virkki, H., 2013. Development of an ancient shoreline database to reconstruct the Litorina Sea maximum extension and the highest shoreline of the *Baltic Sea basin in Finland*. *Bulletin of the Geological Society of Finland* 85, 127–144.
- Ojala, A.E.K., Bigler, C. & Weckström, J., 2014. Understanding varve formation processes from sediment trapping and limnological monitoring. *PAGES Magazine* 22, 8–9.
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- Ojala, A.E.K., Launonen, I., Holmström, L. & Tiljander, M., 2015. Effect of solar forcing and North Atlantic circulation on climate in continental Scandinavia during the Holocene. *Quaternary Science Reviews* 112, 153–171.
- Ojala, A.E.K., Putkinen, N., Palmu, J.-P. & Nenonen, K., 2015. Characterization of De Geer moraines in Finland based on LiDAR DEM mapping. *GFF* 137, 304-318
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- Ojala, A.E.K., Saresma, M., Virtasalo, J.J. & Huotari-Halkosaari, T., 2016. Unconformable base of brackish-water mud aids stratigraphical subdivision of fine-grained sediments and urban planning in southern Finland. *Bulletin of Engineering Geology and the Environment*, in press, <http://dx.doi.org/10.1007/s10064-016-0981-4>
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B) Non-refereed scientific articles

- Alenius, T. & **Ojala, A.E.K.**, 2003. Varved lake sediment properties on Lake Nautajärvi, Central Finland in relation to forest fires and land-use. ESF-HOLIVAR WORKSHOP "Holocene dating, chronologies, and age modelling" 24th-27th April 2003, Utrecht, abstracts.
- Alenius, T., **Ojala, A.** & Tiljander, M., 2004. Paleomagnetic dating of pollen stratigraphy from lake sediment based on PSV master curve from central Finland. In: 34th International Symposium on Archaeometry, 3-7 May 2004, Zaragoza, (Spain): program and abstracts, University of Zaragoza, p. 37.
- Arppe, L., Kurki, E., Wooller, M.J., Luoto, T., Zajaczkowski, M., **Ojala, A.E.K.**, 2017. Chironomid oxygen isotope record of mid- to late Holocene climate evolution from southern Spitsbergen. The EGU General Assembly, 23–28.4.2017, Vienna, Austria.
- Francus, P. & **Ojala, A.** 2000: X-ray densitometry vs. image analysis of thin sections: a compared study of varved sediments of Lake Nautajärvi, Finland. 8th International Symposium on Palaeolimnology, 20 Aug.-24 Aug. 2000, Kingston, Canada, *abstract volume*, p. 28-29.
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- Francus, P., Schimmelmänn, A., Lange, C., Schieber, J., **Ojala, A.E.K.** & Zolitschka, B. 2016. Global Compilation of Marine Varve Records. 32nd IAS Meeting of Sedimentology International Association, Marrakech, Morocco, 23-25 May 2016.
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- Hang, T **Ojala, A.** & Kohv, M., 2014. A quantitative varve sequence cross-correlation and magnetostratigraphy from two clay varve basins in western Estonia. Paleolimnology Of Northern Eurasia - International Conference, 21.09 - 25.09.2014, Petrozavodsk, Russia.
- Hirvas, H., Lintinen, P., **Ojala, A.** & Vanhala, H. 2005. Haltin-Ridnitsohkan alueen geologiset erityispiirteet. Pohjoisten alueiden kvartaaritutkimuksen seminaari, Kilpisjärven biol. asema13-15.1.2005, p. 10-14.
- Huotari, T., Suppala, I., Vanhala, H., Valjus, T., **Ojala, A.** & Palmu, J-P., 2007. Geofysikaaliset tutkimukset Suurpellon rakennusalueella Espoossa. In: Sovelletun geofysiikan XVI neuvottelupäivät, 7.-8.11.2007, Oulu : abstraktikokoelma. Vuorimiesyhdistys. Sarja B 87. Oulu: Vuorimiesyhdistys, p. 33-35.
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- Hyttinen, O., Kaakinen, A., **Ojala, A.E.K.** & Salonen, V.-P. 2010. Sedimentary record of Baltic Ice Lake /Yoldia Sea transition in southern Finland. Abstract, 29th Nordic Geological Winter Meeting January 11-13, 2010, Oslo, Norway.
- Hämäläinen, J., Virtasalo, J. & **Ojala, A.E.K.**, 2014 Shear strength measurements of the sediments of the Archipelago Sea: a field study. In: Virtasalo, J. & Tuusjärvi, M. (eds). The 1st Colloquium of Geosciences 2014, 19.-20.3.2014, GTK, Espoo, Finland. Geologian tutkimuskeskus, Opas 58, p. 18
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- Kosonen, E. & **Ojala, A.E.K.**, 2009. Paleosecular variation and deglaciation events in Eastern Finland during the Late Glacial time. INQUA, Beribaltic meeting, June 12-17, 2011, Rovaniemi, Finland.
- Kosonen, E., **Ojala, A.E.K.**, Francus, P. & Kihlman, S., 2011. The Chemical Signal of Clastic-biogenic Varves during the Last 2000 Years from Lake Nautajärvi (Southern Finland). AGU meeting, December 16-22, 2011, San Francisco, USA.
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