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HELLENIC AGRICULTURAL ORGANIZATION "DIMITRA" - DG AGRICULTURAL RESEARCH

Dr. Nektarios Kourgialas is Researcher (Grade C') Head of Water Resources, Irrigation & Environmental Geoinformatics Lab. - Institute of Olive Tree Subtropical Plants and Viticulture - Hellenic Agricultural Organization DIMITRA. He completed his agronomy degree at the Aristotle University of Thessaloniki (Greece). He obtained a Master's degree from Technical University of Crete in Greece and a PhD in Water Resources & Hydraulic Engineering from School of Environmental Engineering at Technical University of Crete (Greece). He has more than 20 years of experience in the fields of water resources management, agricultural water management, irrigation, Geoinformatics-GIS, climate change and agroecosystems, hydrological extremes, and modelling hydrological/environmental processes.

He has published several works in journals and conference proceedings on the above-mentioned fields. Specifically, he has 46 papers published or in press in journals indexed by Science Citation Index and Scopus [*h-index=17, Total Citations=931 (source: Scopus), h-index=19, i10-index =31, Total Citations=1374 (source: Google Scholar)*], 66 conference proceedings, 1 book, and 3 book chapters. He has significant experience in water related research projects. Specifically, he has participated as Coordinator or Principal investigator or Co-investigator in 35 research projects under EU, national or public sector's funding.

He is Editor of the international Open Access peer-reviewed journal "Water Supply" (IWA), and member of the editorial and topic board of the international peer-reviewed journals "Climate", and "ISPRS International Journal of Geo-Information".

He has the coordination role of water sampling processes in Crete (period 2020-2024) in the context of National Network for Monitoring and Recording of the Quantity (rivers) and Quality (rivers and lakes) of the Surface Waters in Greece. Dr. Nektarios Kourgialas has knowledge of the use of new geoinformatics / precision agriculture technologies, which aim to: a) the efficient use of irrigation water & the mitigation of climate-water effects on agriculture (drought, floods, erosion), b) simulation and forecasting of the dynamics of soil-water resources and pollutants (saline water, NO⁻³ etc.) in the agricultural sector, c) optimization of irrigation systems efficiency & water distribution.