Virtual Institute of Integrated Climate and Landscape Evolution Analyses - Theme: Dynamics of Climate and Landscape Evolution of Cultural Landscapes in the Northern Central European Lowlands since the Last Ice Age

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Kierownik: Mirosław Błaszkiewicz

Wykonawcy: Hanna Bargiel, Arkadiusz Bartczak, Mirosław Błaszkiewicz, Dariusz Brykała, Piotr Gierszewski, Halina Kaczmarek, Michał Kaszubski, Jarosław Kordowski, Mateusz Kramkowski, Piotr Lamparski, Michał Słowiński, Sebastian Tyszkowski, Izabela Zawiska

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The Helmholtz Centre Potsdam GFZ German Research Centre for Geosciences, Ernst Moritz Arndt University Greifswald (UNI GREIFSWALD) and the Brandenburg University of Technology Cottbus (BTU) together with their partner the Polish Academy of Sciences (PAN) strive for focusing their research capacities and expertise to explore processes of climate and landscape evolution in an historical cultural landscape extending from northeastern Germany into northwestern Poland. The long-term mission of the Virtual Institute for Integrated Climate and Landscape Evolution Analyses (ICLEA) is to provide a substantiated data basis for sustained environmental maintenance based on a profound process understanding at all relevant time scales. Therefore, a novel concept of linking time scales has been developed through integrating instrumental monitoring data with remote sensing information and proxy data analyses for a comprehensive understanding of landscape evolution processes and to distinguish between natural processes and human impacts. Emphasis will be on including natural archives with a seasonal time resolution in order to enable a direct link and calibration of proxy data with instrumental data. The northern-central European lowlands will be facilitated as a natural laboratory providing an ideal case for utilizing this systematic and holistic approach. Hence, ICLEA will provide a panel for system-based investigations of climatic variability and environmental response. This includes urgent questions of variable sensitivity, critical thresholds and non-linear responses on different time and spatial scales. On a long-term perspective this knowledge will aid better anticipation of future environmental changes for developing efficient adaptation strategies in a world of changing climate.

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