





(authigenic calcite), diatoms, pollen. Technological innovations include the exploration of novel rapid, non-destructive and low-cost scanning techniques (reflectance spectroscopy and XRF) for quantitative analysis of lake sediments.

The two goals will be addressed in three Tasks:

Task 1: Calibration of biological and geochemical proxies from 50 modern lakes along a W-E transect in northern Poland that reflects a climate gradient.

Task 2: Quantitative winter/summer temperature reconstruction from lakes in NE Poland at annual and subdecadal resolution for the past 1000 years (based on Task 1) and validation with early instrumental and documentary data.

Task 3: Score existing climate model experiments and constrain future climate projections with our new regional dataset.

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