## Diatoms of the Caribbean

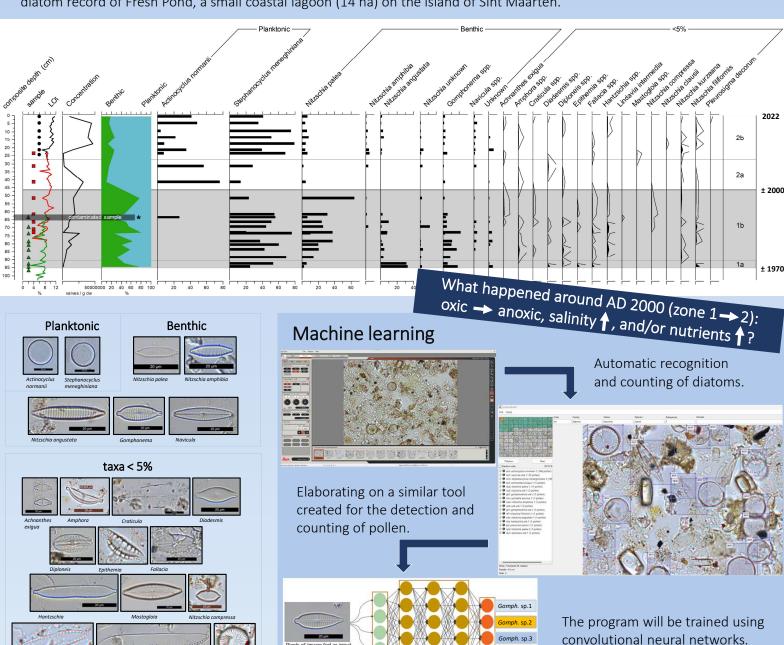
**EDM 14** Meise, 2023

Romée van der Kuil<sup>1</sup>, Emmeken van den Dungen<sup>1</sup>, Kees Nooren<sup>1,2</sup>, Francesca Sangiorgi<sup>1</sup>, and Timme Donders<sup>1</sup>

nces, Utrecht University, 3584 CB Utrecht; 2Royal Netherlands Institute in Studies (KITLV/KNAW) ), 2311 BE Leiden



Drastic changes in land-use on the Caribbean islands have led to eutrophication and siltation of coastal lagoons. To quantify recent impact, and to evaluate the effect of different land and water management practices, short sediment cores have been collected on four islands. Cores are investigated on several proxies, including diatoms. Here we show the diatom record of Fresh Pond, a small coastal lagoon (14 ha) on the island of Sint Maarten.





The machine learning technique will be used for a high resolution diatom-based

reconstruction of precipitation at Saliña Bartol (Bonaire).



