



# CESAB

CENTRE FOR THE SYNTHESIS AND ANALYSIS OF BIODIVERSITY

## GEISHA

Global Evaluation of the Impacts of Storms on freshwater Habitat and structure of phytoplankton Assemblages

**PRINCIPAL INVESTIGATORS:**

**Orlane ANNEVILLE**, Inrae (FR) / **Jason STOCKWELL**, University of Vermont (USA) / **Vijay PATIL**, Geological Survey; University of Alaska Fairbanks (USA)

**POSTDOC: Jonathan DOUBEK**, University of Vermont (USA)

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Phytoplankton abundance and composition are sensitive to water column conditions which are strongly influenced by weather (e.g., wind and rain) and climate change. **Geisha** was framed in support to the GLEON Stormblitz project to gather and analyse time-series through collaborative efforts to assess the impacts of storms on phytoplankton.

The project includes more than 80 researchers from governmental institutes and universities. **Geisha's** goals were to:

1. gather and standardize existing long-term datasets,
2. assess the impact of storms on nutrients, light, water column stability and subsequent impacts on the structure of phytoplankton communities,
3. perform meta-analyses to evaluate the sensitivity of aquatic ecosystems to extreme weather events,
4. provide new frameworks to explore theoretical questions related to phytoplankton diversity, succession and ecosystem resilience to extreme weather events.

**18 PARTICIPANTS:**

**R. ADRIAN**, IGB (AL) / **L. CARVALHO**, Centre for Ecology & Hydrology (UK) / **CW. CHANG**, IE<sup>2</sup> - National Taiwan University (TW) / **G. DUR**, Shizuoka University (JP) / **CH. HSIEH** IE<sup>2</sup> - National Taiwan University (TW) / **M. LAJEUNESSE**, University of South Florida (USA) / **A. LEWANDOWSKA**, Tvärminne Zoological Station - University of Helsinki (FI) / **M. CARSCALLEN**, Dalhousie University (CA) / **J. RUSAK**, Dorset Environmental Science Centre (CA) / **N. SALMASO**, IASMA Research and Innovation Centre, Fondazione Edmund Mach-Istituto Agrario di S. Michele all'Adige (IT) / **F. SCHMITT**, LOG-CNRS (FR) / **S. SOUISSI**, LOG-Université Lille 1 (FR) / **D. STRAILE**, Limnological Institute, University of Konstanz (GE) / **CT. SELTMANN**, IGB (GE) / **SJ. THACKERAY**, Centre for Ecology & Hydrology (UK) / **P. URRUTIA CORDERO**, Uppsala University (SE) / **P. VENAIL**, Forel Institut-University of Geneva (SW) / **I. WOOLWAY**, Dundalk Institute of Technology (UK)

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*CESAB (Centre for the Synthesis and Analysis of Biodiversity) is FRB's flagship program and an internationally renowned research center whose objective is to implement innovative work to synthesize and analyze existing data sets in biodiversity research.*

