



GlobalHAB symposium on automated in situ observations of plankton:
22-27 August 2022

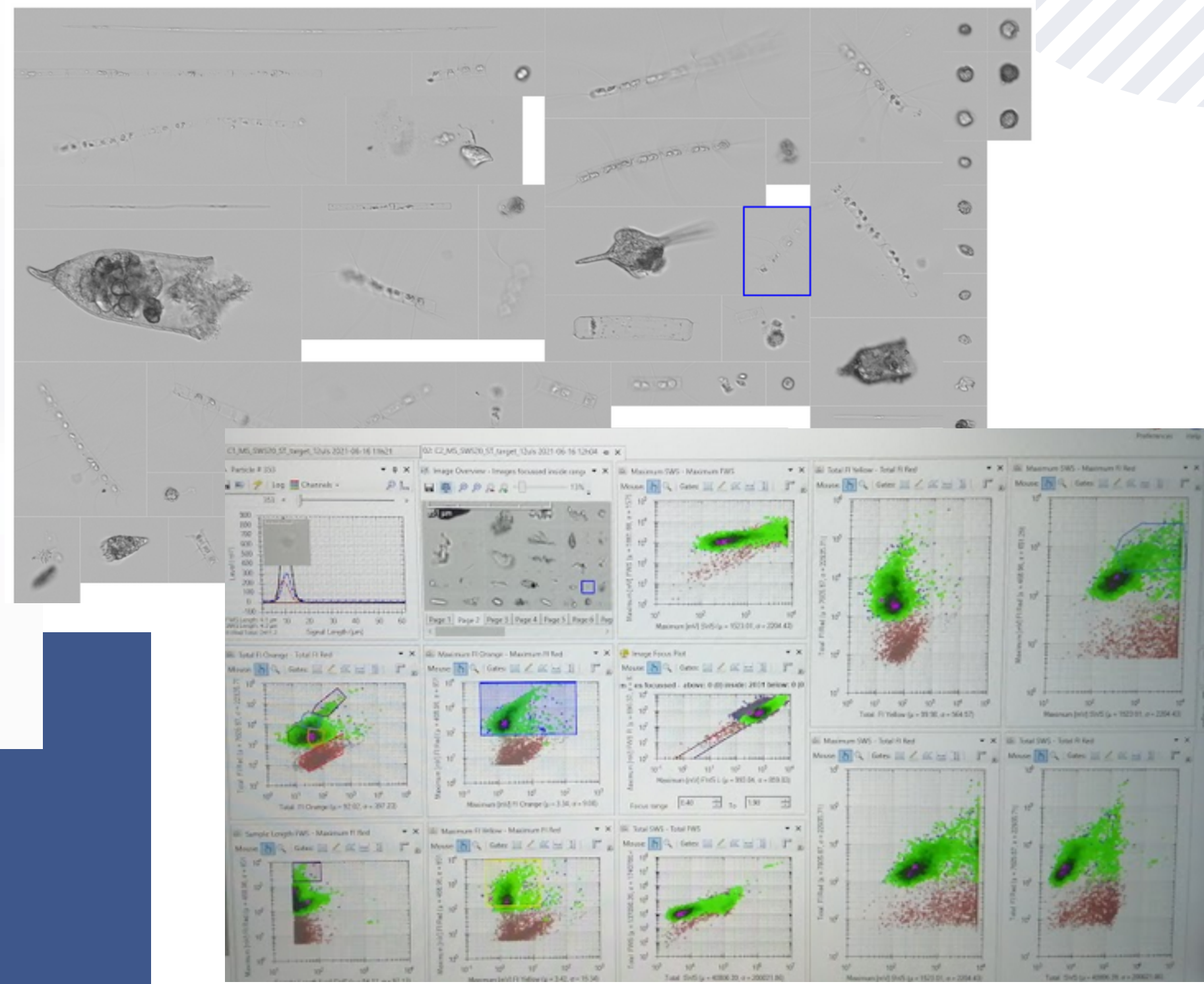
Automated HAB observations using the CytoSense in Greece

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Cytosence (MSFD, WFD)



Mesocosm Experiment: Crete (Cretacosmos)

Building best protocol for microphytoplankton counts and recognition
using image in flow cytometry for fast analysis

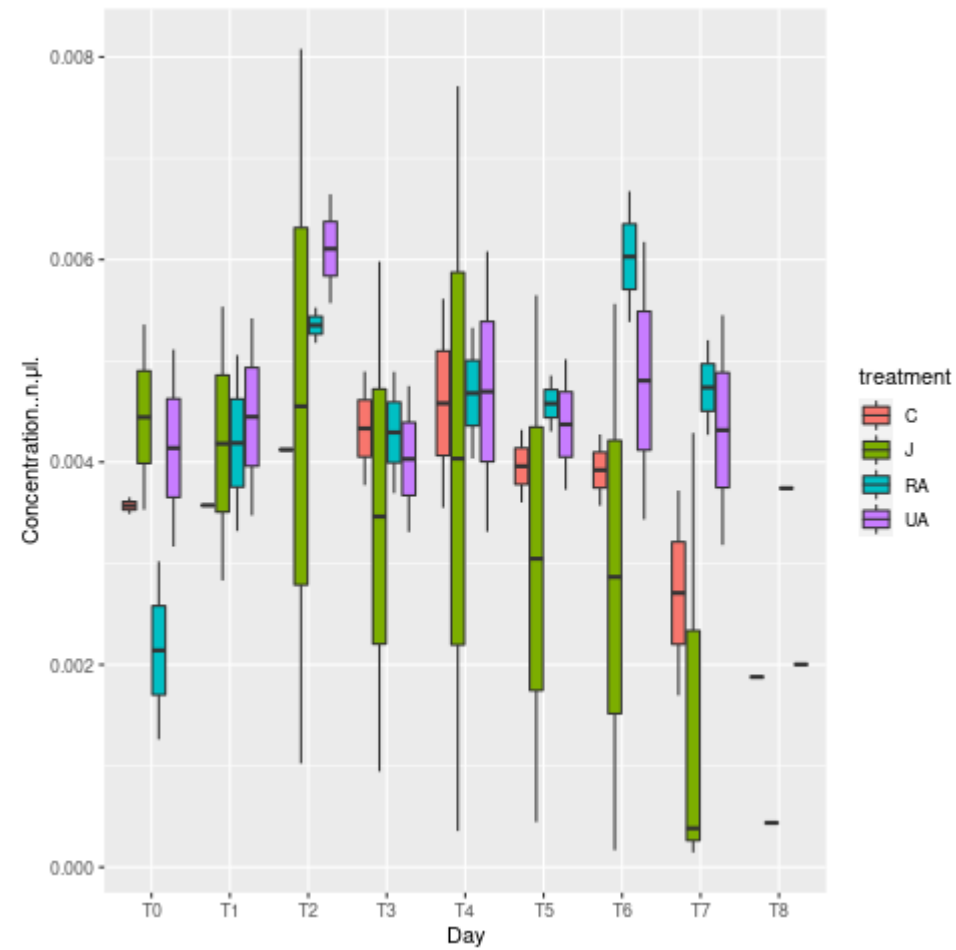


- 8 mesocosms
- 3 protocols (pico, nano, micro)

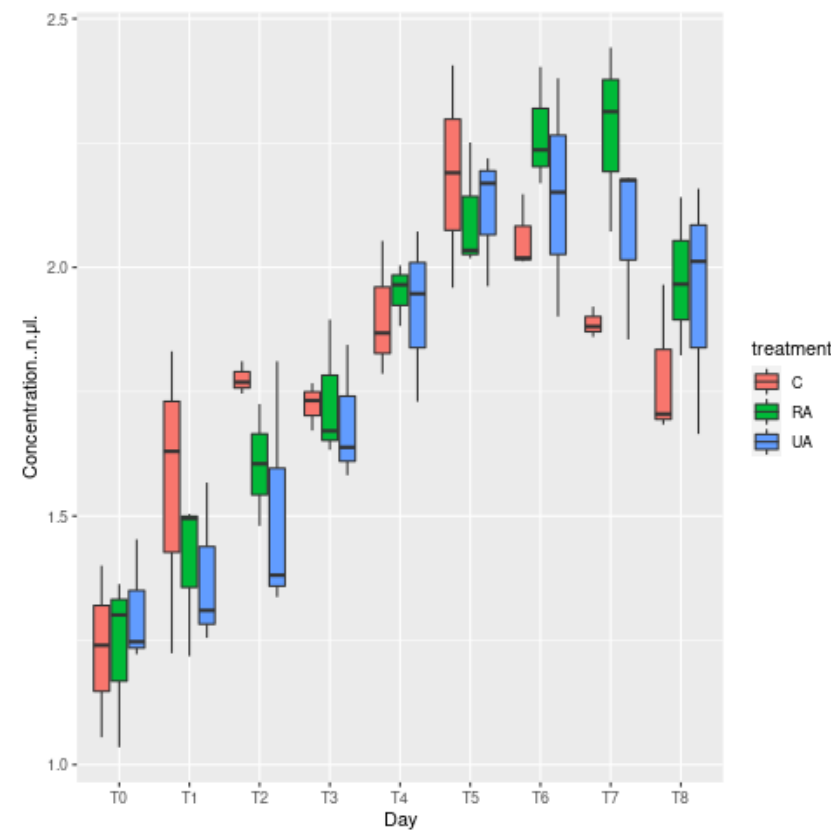
- Reversed filtration 10 μ m
- Formol 5% fixation



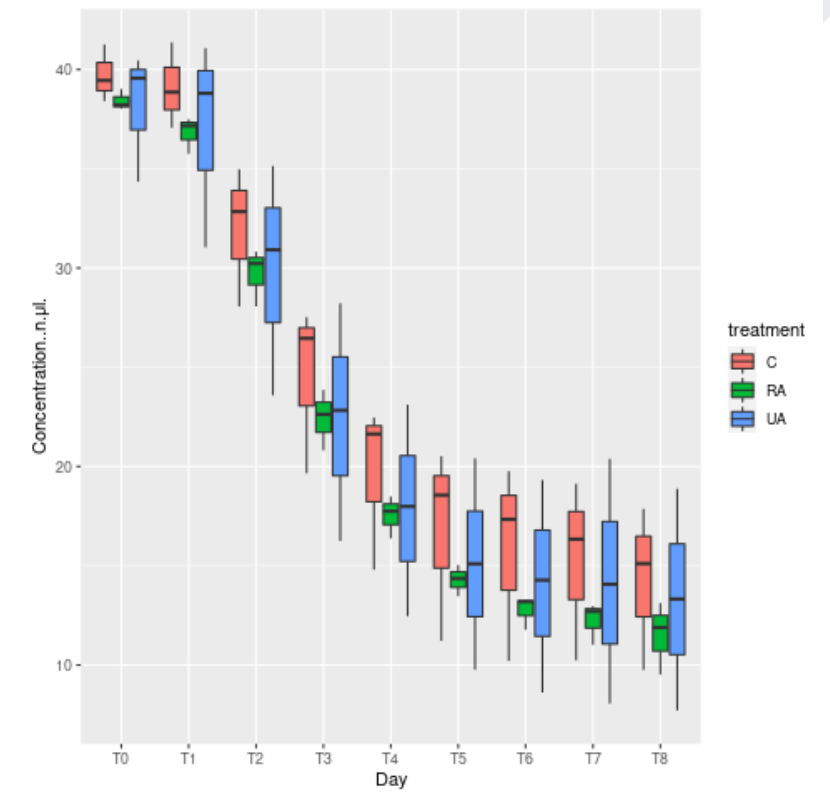
Preliminary Results



TRedMicro



TRedNano



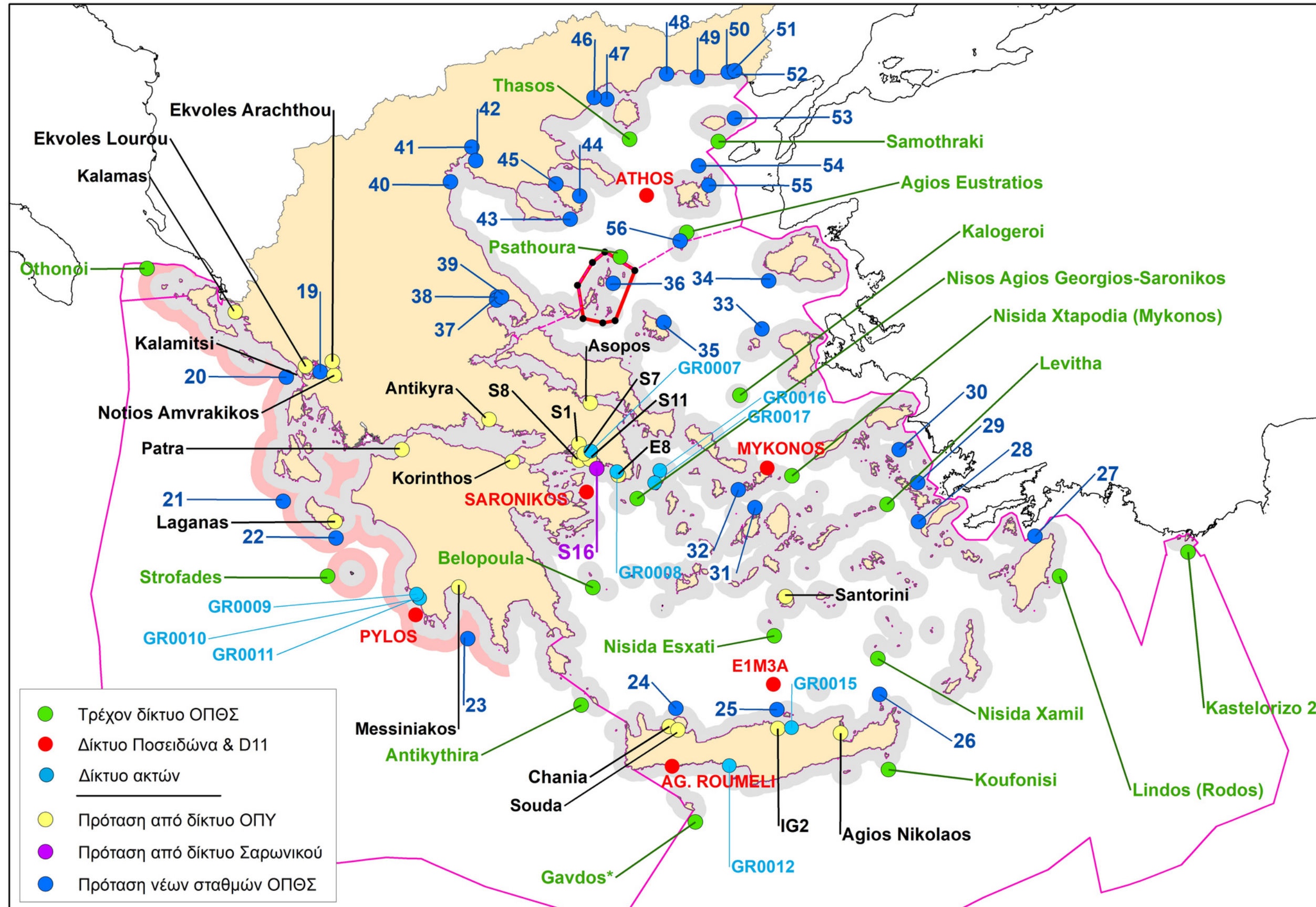
OranPicoProc

ParticleTrieur

- ParticleTrieur is a cross-platform java program to help organise, label, process and classify images, particularly for particle samples such as microfossils.
- It works with the MISO CNN training library (<https://github.com/microfossil/particle-classification>) to provide an easy interface to train image classification CNN models.

The screenshot shows the documentation page for Particle Classification. The page has a dark blue header with the title 'Particle Classification' and 'latest' below it. A search bar is present. The left sidebar contains a navigation menu with sections: 'GETTING STARTED' (Introduction, Installation), 'PARTICLETRIEUR' (Overview, Adding images, Selection and Sorting), and a DigitalOcean advertisement. The main content area has a breadcrumb 'Docs » Particle Classification' and an 'Edit on GitHub' link. The main heading is 'Particle Classification', followed by a welcome message: 'Welcome to the help and tutorial documentation for the ParticleTrieur program and the MISO python library.' Below this are sections for 'Overview' and 'MISO'. The 'MISO' section describes it as a library of python scripts for training a CNN from labeled images, mentioning ResNet and transfer learning. A 'Github repository' link is provided. The 'ParticleTrieur' section begins with a definition: 'ParticleTrieur is a cross-platform java program to help organise, label, process and classify images, particularly for particle samples such as microfossils. It can be used for both the creation of the training set required to make a CNN classifier, and classification of image using a trained CNN. It also includes some image processing functions, morphology calculations and statistical graph'.

Monitoring Stations



Thank you for your time!