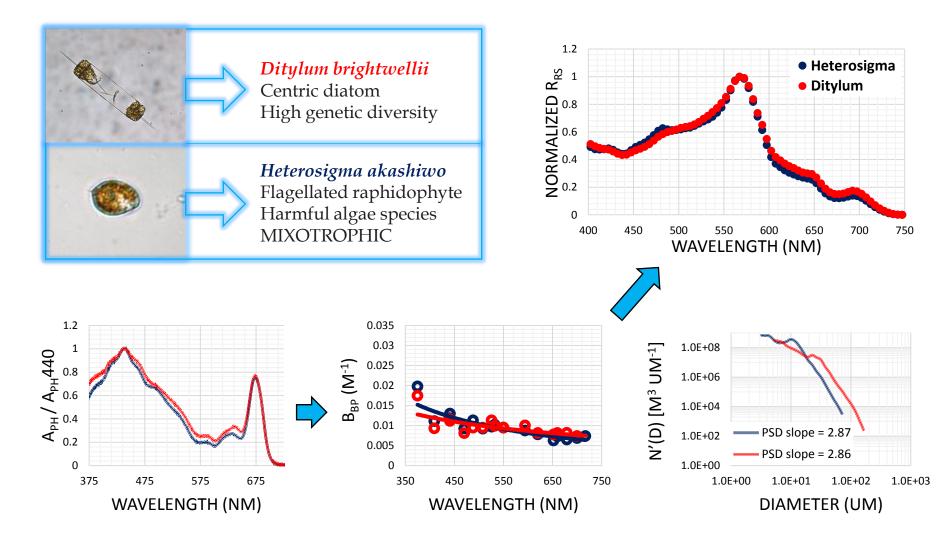
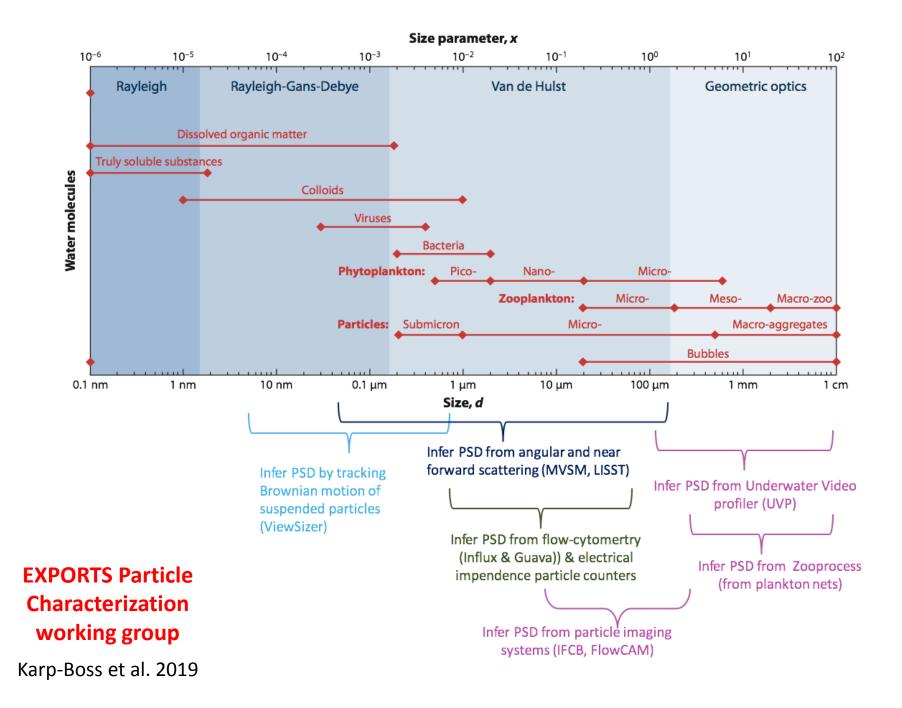
## Challenges for PFT algorithm development/validation



## What optimal suite of measurements should be the standard for PFT/PSC validation?

□ How do we compare/integrate various observation types?

- What is the most *optimal* way to capture the size continuum of the entire phytoplankton community assemblage?
- Do we need a multi-instrument, integrated validation set to intercompare and individually validate algorithms against e.g. HPLC, PSD, and taxonomy simultaneously? One gold standard?
- □ Should we balance perfection with "good enough" (e.g. IFCB, spectral slope of beam-C) to maximize spatio-temporal coverage?



## What types of ancillary data can augment PFT algorithm development/validation?

- e.g. BGC provinces, T-S diagrams, seasonal distribution, genomics?
- □ Should these be incorporated in algorithms?
- □ Can they be remotely sensed?
- What other sources of ancillary data will be useful for algorithm development and validation?