

# Culturable diversity of Arctic phytoplankton during pack ice melting

## Supplementary material

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## Supplementary data

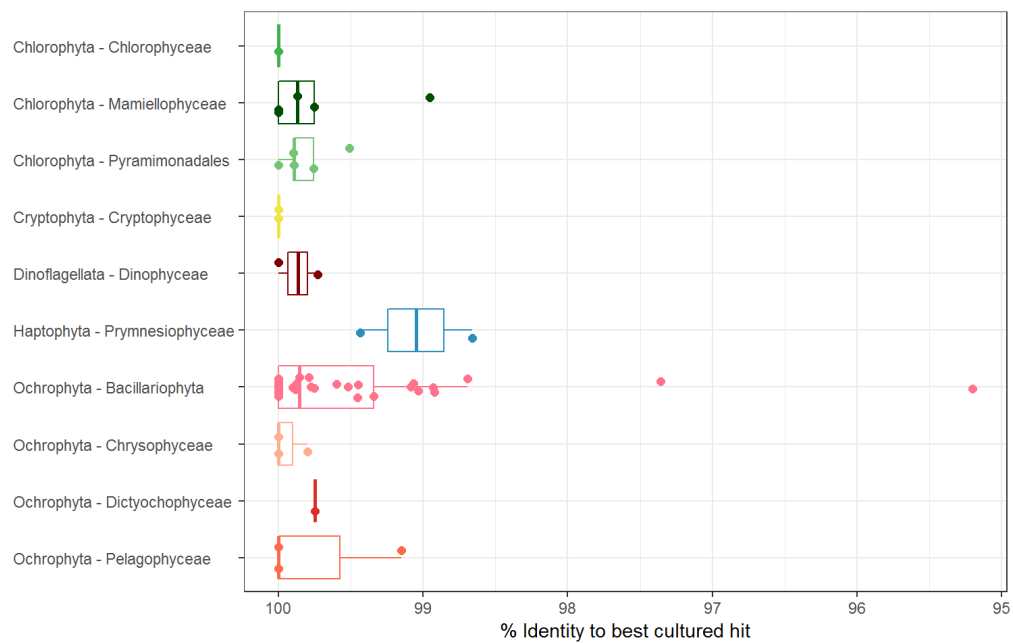
Supplementary data are available at:

<https://github.com/vaulot/Paper-2019-Ribeiro-GE-cultures>

**Supplementary Data S1:** File GE\_cultures\_Tables.xlsx. Sheet Data S1. Strains collected during the Green Edge campaign, including both *Amundsen* cruise (AM) and ice camp (IC) samples: RCC accession number, taxonomy, respective phylo-type grouping, sampling substrate, depth and date, geographic coordinates, and isolation method.

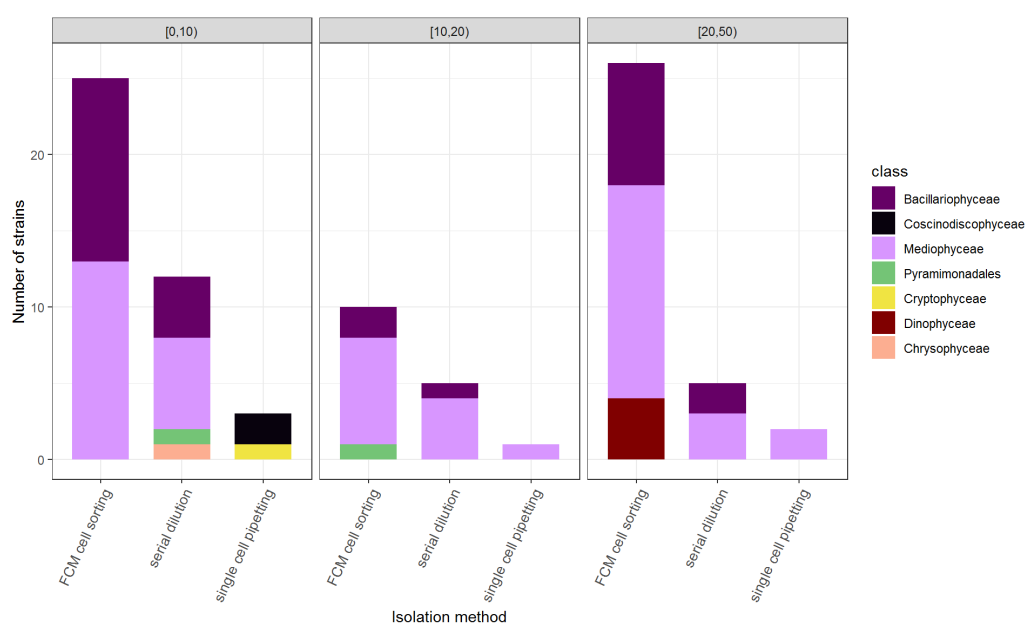
**Supplementary Data S2:** File GE\_cultures\_Tables.xlsx. Sheet Data S2. Best BLAST hit for representative 18S rRNA sequences from each phylotype against all GenBank sequences, PR<sup>2</sup> sequences and sequences from cultured strains.

## Supplementary Figures



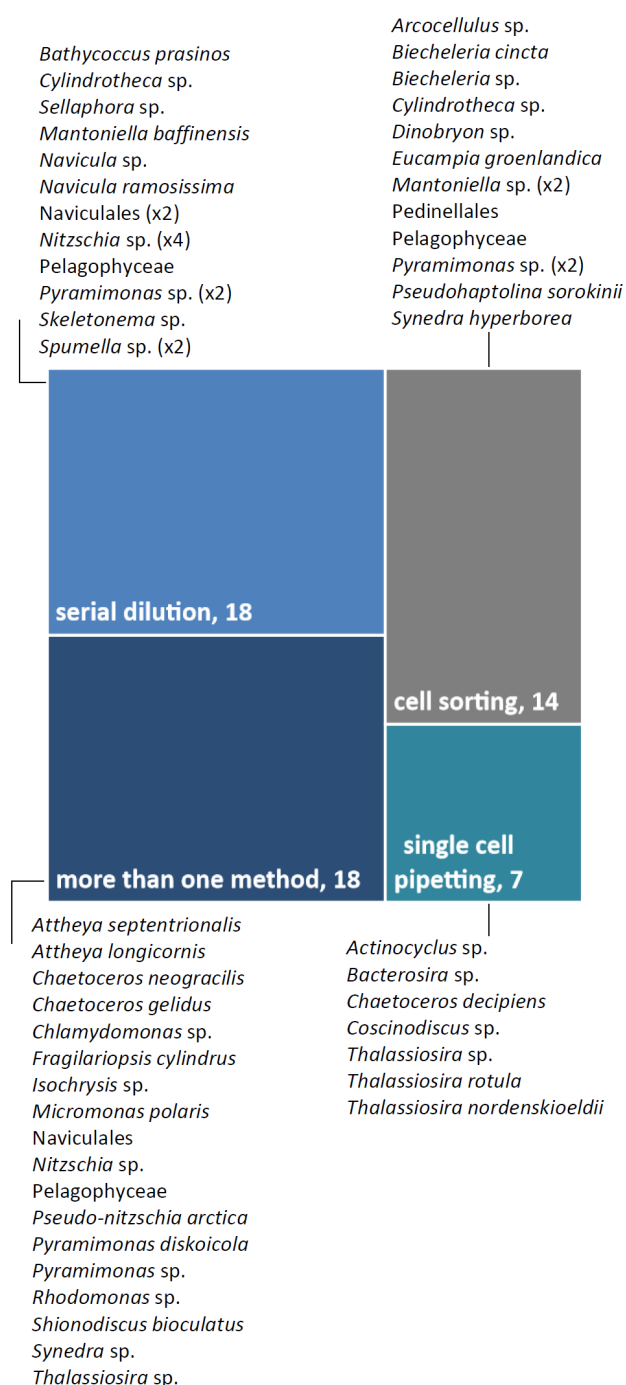
**Figure S1. Novelty of phylotypes.**

Percentage of similarity of phylotype representative 18S rRNA sequence to best BLAST hit from GenBank (see Supplementary Data S2).



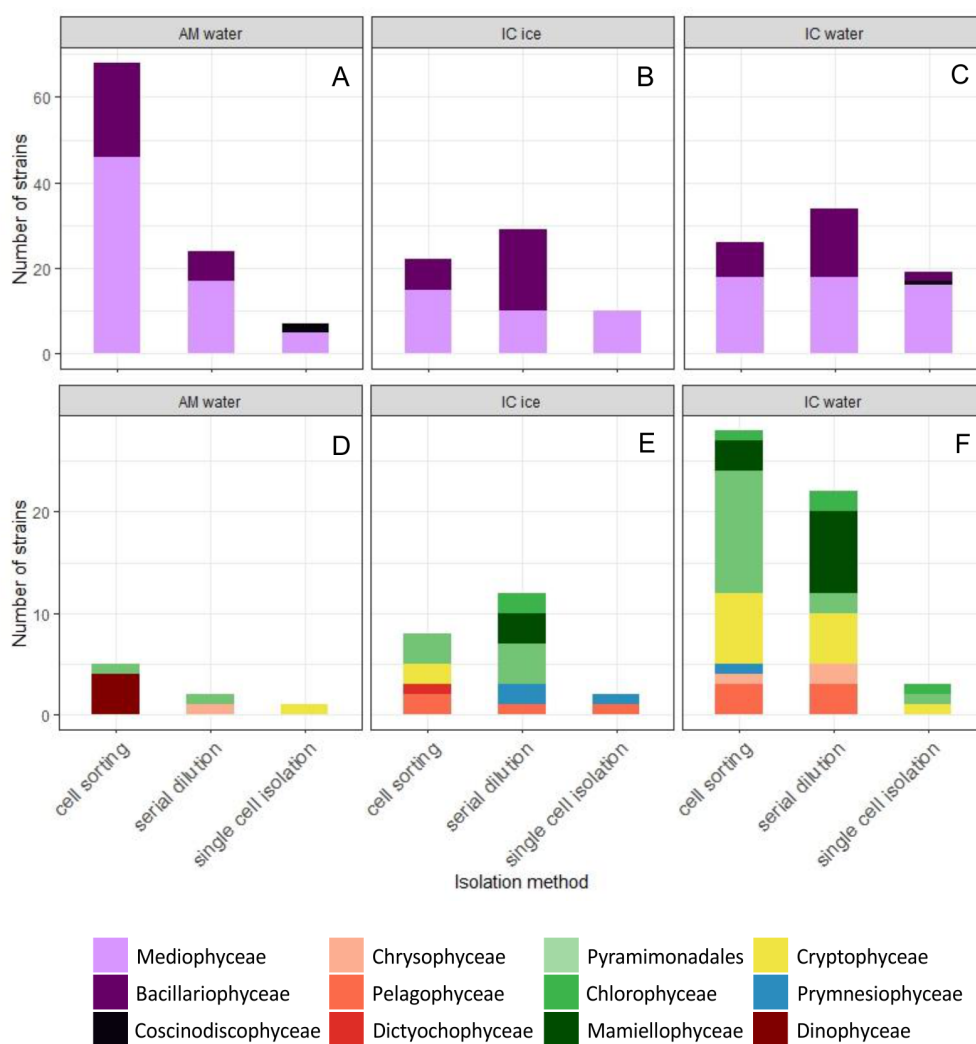
**Figure S2. Strains from *Amundsen* cruise as a function of isolation method and depth.**

Strain class distribution for the *Amundsen* cruise separated according to the method of isolation (cell sorting, serial dilution and single cell isolation) and sampling depth range (m, m).



**Figure S3. Phylotype as a function of isolation method.**

Treemap of the number of strains isolated as function of the isolation method.



**Figure S4. Strains as a function of isolation method and substrate.**

Strain class distribution separated according to the method of isolation (cell sorting, serial dilution, and single cell isolation) and sampling substrate: water samples from the *Amundsen* cruise, and water and sea ice samples from the Ice Camp for diatoms (top panels) and non-diatoms (bottom panels).