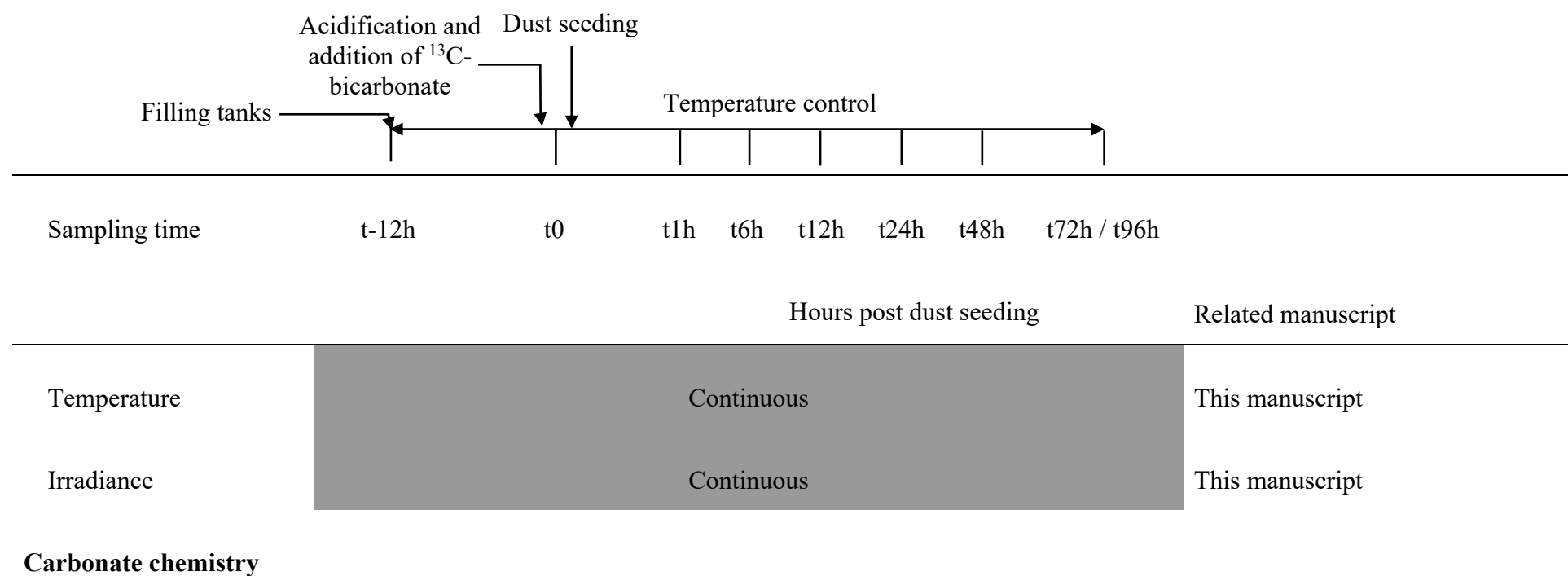


Table 1. List of parameters and processes investigated during the three experiments at stations TYR, ION and FAST. Corresponding manuscripts are indicated. pH_T: pH on the total scale, A_T : total alkalinity, $^{13}\text{C}-C_T$: ^{13}C signature of dissolved inorganic carbon, NO_x: nitrate + nitrite, DIP: dissolved inorganic phosphorus, Si(OH)₄: silicate, DFe: dissolved iron, DAi: dissolved aluminium, Th-REE-Pa: Thorium (^{230}Th and ^{232}Th), Rare Earth elements and Protactinium (^{231}Pa), POC: particulate organic carbon, DOC: dissolved organic carbon, $^{13}\text{C}-\text{DOC}$: ^{13}C signature of dissolved organic carbon, TEP: transparent exopolymer particles, NCP/CR: net community production and community respiration (oxygen based), $^{14}\text{C}-\text{PP}$: primary production based on ^{14}C incorporation.



pH_T



This manuscript

A_T



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$\delta^{13}\text{C}-C_T$



Gazeau et al. (2021)

Macro-nutrients

NO_x



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DIP



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Si(OH)₄



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Micro-nutrients

DFe



Roy-Barman et al. (2021)

DAI



Roy-Barman et al. (2021)

Th-REE-Pa



Roy-Barman et al. (2021)

Biological stocks

Pigments

This manuscript

Flow cytometry

This manuscript

Microscopy

This manuscript

Diazotroph abundance

Ridame et al. (2021)

Virus abundance

Dinasquet et al. (2021)

Meta-transcriptomics

Dinasquet et al. (2021)

Bacterial diversity

Dinasquet et al. (2021)

Micro-eukaryote
diversity

Dinasquet et al. (2021)

Meso-zooplankton

This manuscript

POC (incl. $\delta^{13}\text{C}$)

Gazeau et al. (2021)

POC sediment traps		Gazeau et al. (2021)
DOC		Gazeau et al. (2021)
^{13}C -DOC		Gazeau et al. (2021)
TEP		Gazeau et al. (2021)
Amino acids		Gazeau et al. (2021)
Carbohydrates		Gazeau et al. (2021)
Processes		
NCP/CR		Gazeau et al. (2021)
^{14}C -PP		Gazeau et al. (2021)
Heterotrophic production		Gazeau et al. (2021)
Ectoenzymatic activity		Gazeau et al. (2021)

