

	Abbreviation	Description	
Sample type	CORE	sea ice core	
	SW	sea water	
	SNOW	snow	
	ICES	ice samples with comments	
	AIR	air samples and air sample measurement	
	FF	flost flower	
Variables	TEMP	temperature	
	SAL	salinity	
	CHL	chlorophyll A	
	IKA	carbonate system	
	DMS	dimethylsulfide, dimethylsulfoniopropionate, dimethylsulfoxide	
	POC	particulate organic carbon	
	NUT	nutrients	
	HAL	halogenated organic carbon compounds	
	DEN	density	
	DOC	dissolved organic carbon	
	MET	methane	
	NIT	nitrogen isotopes	
	GAS	Dissolved Inorganic Carbon, Total Alkalinity, N <sub>2</sub> O, Bromoform, CH <sub>4</sub>	
	HG	mercury compounds	
	EPS	exopolymeric substances	
	BIO	bacterial production, bacterial cell and virus-like particle counts, bacterial community DNA analysis, eucaryotic community DNA analysis, photosynthetic efficiency -measurements, chlorophyll a, ice algae species	
	VIR	isolation of virus-host systems (bacteria and their viruses)	
	SPEC	sea ice algae and bacteria	
	FE	Total dissolvable iron, dissovable iron, particulate iron, organic ligands for iron	
	EXP	experiment: temperature, salinity, texture, particulate organic carbon, dissolved organic carbon, nutrients, exopolymeric substances, species, total dissovable iron, dissolvable iron, particulate iron, organic ligands for iron	
	CO <sub>2</sub>	carbon dioxide	
	CHBr <sub>3</sub>	bromoform	
	CaC	calcium carbonate	
	FOR	foraminifera	
	DMSPEXP	incubation experiments for microbial DMSP degradation	
	Device	sea ice corer	sea ice corer
		peristaltic pump	persiltatic pump for water sampling
bottle		sampel bottle submerged in brine accumulated in brine hole	
Ti coated saw		Ti coated saw	
ice axe		ice axe	
hand		hand sampling using clean gloves	
Niskin bottle		Polyvinylidene Fluoride (PVDF) water sampler	
Bromoform metal chamber		Metal chamber for bromoform developed by Hokkaido University, Japan.	
CO <sub>2</sub> chamber		CO <sub>2</sub> chamber for flux measurements, different models	
plastic shovel		plastic shovel	
scoop	scoop		
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