

## Parameters

The parameters reported below (\*) are reported for two size fractions: the small (\*\_SPT\_CONC\_PUMP [unit]) and large (\*\_LPT\_CONC\_PUMP [unit]) size fractions, where SPT is the “small particulate total” and LPT is the “large particulate total”. For the particulate trace elements determined by ICP-MS, we also report \*\_SPL\_CONC\_PUMP, where SPL is the “small particulate leachable” concentration determined after the “Berger Leach”. For each parameter and size fraction, there is an error estimate (parameter name preceded by 1SD::) and a quality control flag, following the GTSP convention (also adopted by SeaDataNet, as recommended by the GEOTRACES programme) (parameter name preceded by Flag::). If parameter was measured on the ICP-MS, the isotope and resolution (LR=Low Resolution; MR=Medium Resolution) used for the concentration measurement are indicated.

Table 4. Measured and derived parameters. N/A: not applicable; nd: no data (e.g., sample lost or not collected); NaN: not a number (failed pump with no volume filtered, so concentration undetermined); please see quality flags section for additional discussion.

Missing data are blank/empty in the final BCO-DMO CSV file.

<u>Name</u>	<u>Description</u>	<u>Isotope Mass</u>	<u>Units</u>	<u>Missing data identifier</u>	<u>Not a number identifier</u>
Ag	particulate Ag	109LR	pmol/L		NaN
Al	particulate Al	27MR	pmol/L		NaN
Ba	particulate Ba	137LR	pmol/L		NaN
bSi	Biogenic silica	N/A	pmol/L		NaN
Cd	particulate Cd	111LR	pmol/L		NaN
Co	particulate Co	59MR	pmol/L		NaN
Cu	particulate Cu	63MR	pmol/L		NaN
Fe	particulate Fe	56MR	pmol/L		NaN
Mn	particulate Mn	55MR	pmol/L		NaN
Mo	particulate Mo	95LR	pmol/L		NaN
N_15_14_DELTA	$\delta^{15}\text{N}$ of particulate N		Permil		NaN
N	Particulate N		$\mu\text{mol/L}$		
Nd	particulate Nd	143LR	pmol/L		NaN
Ni	particulate Ni	60MR	pmol/L		NaN
P	particulate P	31MR	pmol/L		NaN
PARTICLEMASS	Suspended Particulate Mass		$\mu\text{g/L}$		NaN
Pb	particulate Pb	208LR	pmol/L		NaN
PIC	Particulate Inorganic Carbon		nmol/L		NaN
POC_13_12_DELTA	$\delta^{13}\text{C}$ of particulate organic carbon		Permil		NaN
POC	Particulate organic carbon		$\mu\text{mol/L}$		NaN
Sc	Particulate Sc	66MR	pmol/L		NaN
Th	Particulate Th	232LR	pmol/L		NaN
Ti	Particulate Ti	47MR	pmol/L		NaN
V	Particulate V	51MR	pmol/L		NaN
Zn	Particulate Zn	66MR	pmol/L		NaN