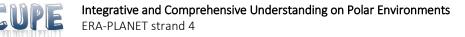


Dataset name:	iCUPE Dataset (DS) from Deliverable 2.4.1:				
DS on emerging organic contaminants in seawater from the Arctic					
Author(s) and affiliations:		Dr. Zhiyong Xie			
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Place and date:		Geesthacht, Germany, 23 September 2019			

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The produced dataset (in MS Excel format) contains concentrations of organophosphate esters (OPE) in surface seawater samples (in total 22) collected in European Arctic during an expedition with R/V Polarstern from 5th June to 3rd July 2014. The spatial distribution of seawater samples is shown in Figure 1. The concentrations for 8 different OPEs are given in pg/L. For each of 8 OPEs, the values for average blank (n=4), standard deviation, and method detection limit (MDL) are included. In addition, an annex (Table 1) contains information on full names, acronyms, Chemical Abstract System (CAS) numbers, molecular weight (MW), and compound descriptors of the 8 OPEs.



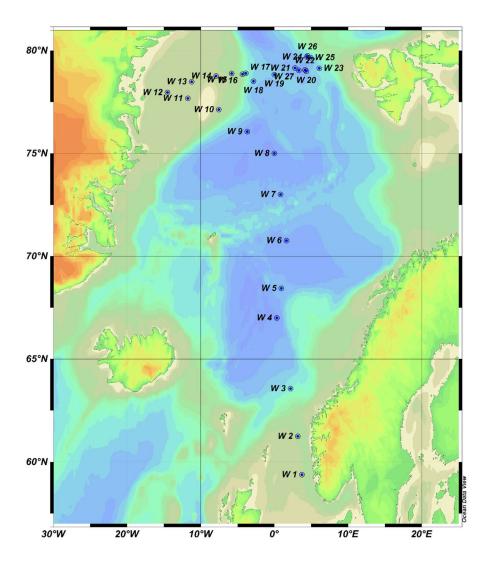


Figure 1. Sampling positions of 1-L seawater samples during *R/V Polarstern* cruise (PS85) from 5th June to 3rd July 2014.



Table 1. Full names, acronyms, Chemical Abstract System (CAS) numbers, molecular weight (MW)of the 8 organophosphate esters (OPEs).

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Name	Akronym	CAS No.	Chemical form	MW
Tris-(1-chloro-2-propyl) phosphate	ТСРР	13674-84-5	$C_9H_{18}Cl_3O_4P$	327.6
Tris-(2-chloroethyl) phosphate	TCEP	115-96-8	$C_6H_{12}Cl_3O_4P$	285.5
Tri-(dichlorisopropyl) phosphate	TDCPP	13674-87-8	$C_9H_{15}Cl_6O_4P$	430.9
Tri-iso-butyl phosphate	TiBP	126-71-6	$C_{12}H_{27}O_4P$	266.3
Tri-n-butyl phosphate	TBP	126-73-8	$C_{12}H_{27}O_4P$	266.3
Tripentyl phosphate	TPeP	2528-38-3	$C_{15}H_{33}O_4P$	308.4
Triphenyl phosphate	TPhP	115-86-6	$C_{18}H_{15}O_4P$	326.3
Tris-(2-ethylhexyl) phosphate	TEHP	78-42-2	$C_{24}H_{51}O_4P$	434.6