

## Parameter Naming Conventions

version: 14 June 2014

Standard hydrographic parameters in the GEOTRACES IDP2014, such as pressure, depth, oxygen, and nutrients, use names as defined in the WOCE/CLIVAR naming conventions

([http://cchdo.ucsd.edu/parameter\\_descriptions](http://cchdo.ucsd.edu/parameter_descriptions)). Examples are CTDPRS, CTDTMP, CTDSAL and CTDOXY for pressure, temperature, salinity and oxygen from CTD sensors, or SALNTY, PHSPT, NITRAT, PHSPT, SILCAT for salinity, phosphate, nitrate and silicate measured on bottle samples.

All other trace elements and isotope names are composed of up to six separate tokens as shown below:

1	2	3	4	5	6
<b>Element/ Compound</b>	<b>[_Oxidation State]</b>	<b>[_Atomic Mass]</b>	<b>_Phase</b>	<b>_DataType</b>	<b>[_Sampling System]</b>

### Explanations

#	Explanation	Example
1	Element or compound (mandatory)	Fe, Th, DIC, NO3, L1Fe
2	Oxidation state as roman number (optional)	_II, _IV
3	Atomic mass (optional; two entries for isotope ratios)	_56, _208_204
4	Phase on which element or compound was measured (mandatory)	_D (dissolved), _S (soluble) , _C (colloidal), _TD (total dissolvable), _TP (total particulate), _SP (small particulate), _SPL (small particulate, labile fraction), _SPR (small particulate, refractory fraction), _SPT (small particulate, total (unleached)), _LP (large particulate), _LPT (large particulate, total (unleached)), _F (free (un-complexed)), _TPL (total particulate, labile fraction), _TPR (total particulate, refractory fraction)
5	DataType (mandatory)	_CONC, _DELTA, _EPSILON, _RATIO, _LogK
6	Sampling system (mandatory)	_BOTTLE, _PUMP, _FISH

### Examples

Fe_D_CONC_BOTTLE	Concentration of dissolved Fe
Fe_II_D_CONC_BOTTLE	Concentration of dissolved Fe(II)
Fe_II_TP_CONC_BOTTLE	Concentration of total particulate Fe(II) determined by

	filtration from a water sampling bottle
Fe_TPL_CONC_BOTTLE	Concentration of labile particulate iron determined by filtration from a water sampling bottle
Nd_143_144_D_RATIO_BOTTLE	Atom ratio of given isotopes for dissolved Nd
Nd_143_D_EPSILON_BOTTLE	Atom ratio of dissolved Nd isotopes expressed in conventional EPSILON notation
Cd_114_D_EPSILON_BOTTLE	Atom ratio of dissolved Cd isotopes expressed in conventional EPSILON notation
Cu_II_F_CONC_BOTTLE	Concentration of free Cu <sup>++</sup>
Pb_206_204_D_RATIO_BOTTLE	Atom ratio of given isotopes for dissolved Pb
DIC_13_D_DELTA_BOTTLE	δ <sup>13</sup> C of DIC
DIC_14_D_DELTA_BOTTLE	Δ <sup>14</sup> C of DIC
NO3_15_D_DELTA_BOTTLE	δ <sup>15</sup> N of nitrate
L1Fe_D_CONC_BOTTLE	Concentration of dissolved L1 Fe-binding ligand
L1Fe_D_LogK_BOTTLE	Log of the stability constant of L1 Fe