

Dissolved inorganic nutrient data series for cruise Mitra MT0499

Principal Investigator and Data Originator

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Content of data series

Parameter	Unit	Parameter code	Number of samples	Number of stations	Comments
Ammonium	$\mu\text{mol l}^{-1}$	AMONAADZ	800	166 CTD	none
Nitrate+Nitrite	$\mu\text{mol l}^{-1}$	NTRZAADZ	800	166 CTD	none
Nitrite	$\mu\text{mol l}^{-1}$	NTRIAADZ	800	166 CTD	none
Phosphate	$\mu\text{mol l}^{-1}$	PHOSAADZ	800	166 CTD	none
Silicate	$\mu\text{mol l}^{-1}$	SLCAAADZ	800	166 CTD	none

CTD= CTD-Rosette sampling

Originator's protocol

Water samples for nutrient analysis were collected from 6 depths in the water column on every CTD cast using the CTD-rosette water sampler. Samples were filtered through Whatman GF/C filters immediately after sampling, and stored in polyethylene bottles prior to analysis. Nutrients were analysed with a Continuous Flow Analyzer System using standard colorimetric autoanalysis methods.

BODC processing

In order to standardise parameter units with that held in the BODC Parameter Dictionary, all nutrient concentrations were converted from mg N, mg P and mg Si per litre to $\mu\text{mol l}^{-1}$ by multiplying their original values by 1000 and dividing by their respective atomic weights (14.01 for N, 30.97 for P and 28.09 for Si). The data were then loaded into a database under the ORACLE Relational Database Management System without further modification.

Comments on data quality

None to report.

Additional information

- Measurements of dissolved inorganic nutrients (ammonium, nitrite, nitrate, silicate, phosphate) were also made during the cruise by the Centre d' Océanologie de Marseille (C. Grenz and co-workers) on bottom water collected with the rosette sampler. These data were collected in the context of sediment flux studies and the analytical method was similar to that used for sediment cores interstitial water analysis (GF/F filtration and autoanalysis). Further details regarding these data are available from the data documentation [mt0499sed](#).
- Dissolved inorganic nutrients were also measured by the Dunstaffnage Marine Laboratory (K. Jones and co-workers) on samples collected with an Interfacial Sampler. Further information is available from the data documentation [mt0499ifs](#).

Acknowledgements

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