

**FRANKLIN CRUISES FR 8/90, 5/92 AND 8/93
DATA DOCUMENTATION
JGOFS WESTERN EQUATORIAL PACIFIC PROCESS STUDY**

[1] General:

Parameter: dissolved nutrients (N and P species)
 Level 1: Yes
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List of Parameters: nitrate, nitrite, dissolved organic nitrogen (DON), total dissolved nitrogen (TDN), phosphate, dissolved organic phosphate (DOP), total dissolved phosphate (TDP)

List of Units: μM (micro-molar)

[2] Sampling:

Gear (e.g. CTD, pump, etc.): CTD; 10 litre niskin bottles
 Standard Depths: Hydrochemistry depths: see Hydrochemistry data
 Chemicals used: none
 Special Procedures: Samples collected and filtered immediately on removal from niskin bottles, then stored in acid washed HDPE containers at -20C until analysis. Analysis performed within 3 months of collection.
 Comments and Notes: Analyses done on FR 9308 only

3] Analysis:

Instrument: Tecator flow injection analyser
 Method: See Clementson et al. (1989)
 Precision:

Parameter	Range	Average	Std. Dev.	C.V. (%)
Nitrate	3.62-3.72	3.66	0.042	1.15
Phosphate	0.52-0.58	0.54	0.024	4.44

Comments: DON and DOP were determined by subtraction of the inorganic fraction from the total N and P fractions respectively.

[4] Results:

Quality of Data: FR08/93 data presented of good quality.
 Known Problems:

[5] Brief description of analytical method: See Clementson L.A. et al. (1989)

[6] Comments:

[7] References:

Clementson, L.A.; G.P. Harris, F.B. Griffiths, and D.W. Rimmer. Seasonal and inter-annual variability in chemical and biological parameters in Storm Bay, Tasmania. 1. Physics, chemistry, and the biomass of components of the food chain. *Australian Journal of Marine and Freshwater Research* 40, 25-38, 1989.