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

[1] General:

Parameter:	Hydrology Analysis of Seawater
Level 1:	Yes
Principal Investigator:	David Terhell
Institute Address:	CSIRO Division of Marine Research
E-Mail Address:	david.terhell@marine.csiro.au
List of Parameters:	Salinity, dissolved oxygen, reactive silicate, nitrate plus nitrite, nitrite, issolved inorganic phosphate (orthophosphate)
List of Units:	salinity (psu – practical salinity units), dissolved oxygen (μ mol/L), silicate (μ mol/L), nitrate+nitrite (μ mol/L), nitrite (μ mol/L), phosphate (μ mol/L)

[2] Sampling:

Gear (e.g. CTD, pump, etc.):	CTD; 10 litre niskin bottles
Standard Depths:	Hydrochemistry depths: see Hydrochemistry data
Chemicals used:	As per methods sited below
Special Procedures:	Standard hydrochemistry sampling procedures followed. Nutrient samples were frozen after collection and analysed within 7 days of collection.
Comments and Notes:	None

3] Analysis:

Instrument:	Salinity – Yeokal Inductive Salinometer Dissolved oxygen – manual Winklier titration Nutrients (silicate, nitrate/nitrite, phosphate) – Technicon AAII.
Method:	Salinity – See Yeokal Inductive Salinometer Dissolved oxygen – CSIRO Division of Fisheries and Oceanography Report 51 Nutrients – CSIRO Marine Research Hydrochemsitry Manual (in preparation)
Precision:	Salinity 0.003 psu Dissolved oxygen 1% Nutrients estimated as 3%
Comments:	None
[4] Results:	
Quality of Data:	Quality of data was good for FR 8/90, Fr 5/92 & FR 8/93

[5] Brief description of analytical method

Major, G.A., Dal Pont, J., Klye, J., and B. Newell (1972). Laboratory tecnhiques in marine chemistry. CSIRO Division of Fisheries and Oceanography Report 51, 1972.

[6] Comments:

At some sites, nitrite was measured separately to nitrate. The nitrate results at these depths are the sum of nitrite plus nitrate.