

For Using Data

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Use Constraints See Terms and Conditions about constrain of use.
Data Citation Yoshikawa, C., Hayashi, E., Yamada, K., Yoshida, O., Toyoda, S., and Yoshida, N. (2014) Methane sources and sinks in the subtropical South Pacific along 17° S as traced by stable isotope ratios. Chemical Geology, 382, 24-31. doi:10.1016/j.chemgeo.2014.05.024.

Quality level

Processed (PI)

Instrument

Turner fluorometer (10-AU-005, TURNER DESIGNS)



Instrument Information :

The extracted samples are measured the fluorescence by Turner fluorometer (10-AU-005, TURNER DESIGNS) which was previously calibrated against a pure chlorophyll a (Sigma chemical Co.). We applied the fluorometric "Non-acidification method" (Welschmeyer, 1994).

Sample type

Seawater

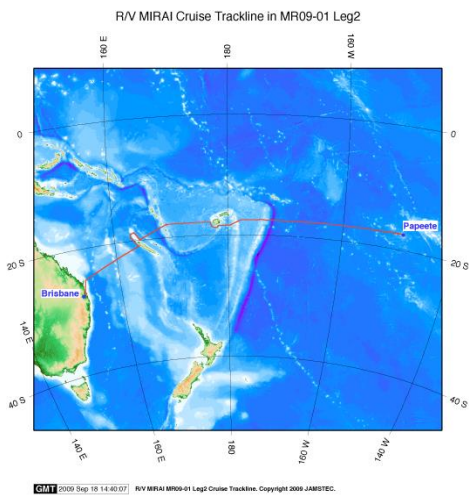
Overview

Seawater samples were collected 0.5 L at 6 depths from surface to about 200 m with Niskin bottles, except for the Surface water, which was taken by the bucket. The samples were gently filtrated by low vacuum pressuer (<15 cmHg) through Whatman GF/F filter (diameter 25 mm) in the dark room. Phytoplankton pigments were immediately extracted in 7 ml of N,N-dimethylformamide (DMF) after filtration and then, the samples were stored at -20° C under the dark condition to extract chlorophyll a for 24 hours or more.

Data format

Excel

Related Information



MR09-01 Leg2

Ship Name: MIRAI
Period: 2009/05/21 - 2009/06/19
Chief Scientist: Hiroshi Uchida (JAMSTEC)
Proposal: