



Ocean and Coastal Nutrients Workshop

Brest, 16-19 sept. 2024

Funded by:



Supported by:



Monday 16 september: Plenary sessions (hybrid format)

PNBI		
Hall	8h30	Participant registration
Conference room 207	9h	Welcome and opening <i>Ifremer</i>
	9h15	Introduction to the workshop <i>Anne Daniel (Ifremer) and Julie Janssens (CSIRO)</i>
		Session 1: INIV debriefing
	9h20	Overview of the 2018 and 2023 INIV voyages <i>Andreas Marouchos (CSIRO)</i>
	9h40	Debriefing of the 2023 INIV voyage by each participating team (MLML/university of Hawaii, CSIRO, SCRIPPS, DFO, ICM, NIOZ/Bangor university, Ifremer, KIOST, Xiamen university)
	10h45	Coffee break
	11h15	Comparability and uncertainty studies <i>Stephen Tibben (CSIRO)</i>
	11h35	Duplicate measurements <i>Karel Bakker (NIOZ)</i>
	11h55	Samples preservation <i>Anne Daniel (Ifremer)</i>
	Reception area	12h30
Conference room 207		Session 2: Nutrients measurements in open ocean and coastal waters
	14h00	Production and use of nutrient CRMs during the JAMSTEC cruises <i>Akihiko Murata (JAMSTEC) virtual talk</i>
	14h20	Calculation of the measurement uncertainty using intercalibration exercises (Quasimeme) <i>Marc Knockaert (Institute of Natural Sciences / QUASIMEME)</i>
	14h40	Example of HyPro CISRO software to process raw data <i>Pavie Nanthasurasak / Merinda McMahon (CSIRO)</i>
	15h00	Alternatives techniques to SFA to measure nutrients in seawater <i>Max Grand (MLML) / Jin-Ming Tang (University of Xiamen)</i>
	15h20	GO-SHIP Repeat Hydrography Nutrient Manual <i>Susan Becker (SCRIPPS) - Virtual talk</i>
	15h40	Coffee break (time for exchange with IUEM Master's students)
		Session 3: Nutrient data qualification
	16h10	Use of software to provide an overview of the data obtained during a cruise <i>Pascale Lherminier (Ifremer)</i>
	16h30	European nutrient data management <i>Julie Gatti (Ifremer)</i>
	16h50	Data flagging, metadata, cross-checking of data : GLODAP and GO-SHIP criteria <i>Nico Lange (GLODAP) -Virtual talk</i>
	17h30	End

Tuesday 17 september: Technical sessions in the lab

PNBI + IUEM		
		Session 4: Manufacturers talks
PNBI - conference room 207	8h30	Evolution of flow analysis systems at SEAL Analytical <i>Paul Schultz, L Alicia Potter, Hervé Ozouf (SEAL representatives)</i>
	8h50	Evolution of flow analysis systems at Skalar <i>Luc Uytterhoeven (SKALAR)</i>
	9h15	Questions and answers
	9h45	Coffee break
		Session 5: lab workstations
IUEM - laboratory A021	10h30	1st round of lab workstations
PNBI - Reception area	12h00	Lunch
IUEM - laboratory A021	13h15	2nd round of lab workstations
	14h45	3rd round of lab workstations
IUEM parking	16h15	Departure for the port of Brest by bus
Brest port	17h15	"L'Atalante" ship tour https://www.flotteoceanographique.fr/en/Facilities
	19h00	Workshop dinner at "Le café du port"

Lab workstations

- 1 Interferences (salt effect, optical blank,)
 - 2 Corrections (tray protocole, carryover, blanks, QC, ..)
 - 3 Calibration (preparation of working standards, use of artificial seawater/depleted seawater, reduction column efficiency, slope only)
- 3 groups (10 people each) rotating successively on the 3 workstations*

with the technical support of



and



Wednesday 18 September: Discussion in small working groups

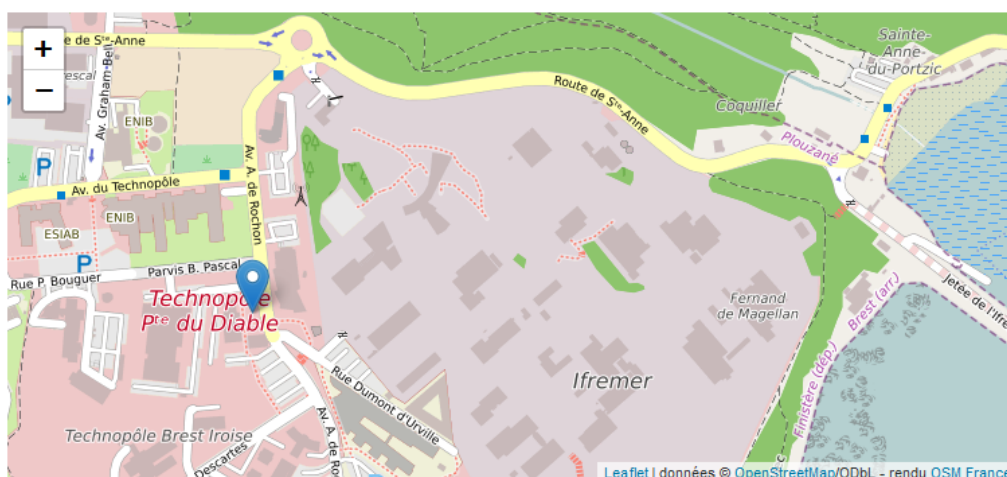
PNBI		
		Session 6: Discussion on 6 study topics
Conference room 207 + room 113	9h00	1st round of discussion
	10h00	2nd round of discussion
	11h00	Coffee break
	11h30	3rd round of discussion
Reception area	12h30	Lunch
	14h00	4th group of discussion
Conference room 207 + room 113	15h00	5th group of discussion
	16h00	Coffee break
	16h30	6th group of discussion
	17h30	End

Topic for discussion

- 1 Standards and reagents
 - 2 Raw data process (need for an common automatic script available in open source language)
 - 3 Calculation of lab uncertainty, limit of quantification,...
 - 4 Use of CRMs in the analytical process and for results corrections
 - 5 Harmonization of metadata reporting
 - 6 Setting up an online platform for sharing technical issues, expertise and practices
- 6 groups (6 people each) rotating successively on the 6 workstations*

Thursday 19 September: Summary, next steps and conclusion		
PNBI		
		Session 7: Summary of each technical session by the group leaders
conference room 207	9h00	Lab workstation 1
	9h20	Lab workstation 2
	9h40	Lab workstation 3
	10h00	Discussion point 1
	10h20	Discussion point 2
	10h40	Discussion point 3
	11h	Coffee break
	11h30	Discussion point 4
	11h50	Discussion point 5
	12h10	Discussion point 6
Hall	12h30	Lunch
conference room 207	14h00	Session 8: Organisation to compile the work done during the workshop
	15h30	Session 9: Next steps and conclusion
	16h00	End

How to come to the workshop from Brest city center?



The workshop will be held at PNBI (Monday, Tuesday, Wednesday and Thursday) and at IUEM (Tuesday)

Bus transport ([BIBUS](#)) is the preferred option. Two routes are available:

- [Bus 2b](#) (destination Technopôle) to "De Rochon" stop
- [Tramway A](#) to "Porte de Plouzané" (terminus) and **then bus 2b** (destination Technopôle) to "De Rochon" stop

40mn bus ride. Fare is 1.8 €. Tickets are valid 1 hour.

From "De Rochon" bus stop, climb few hundred of meters,

PNBI (GPS 48°21'34.7"N 4°33'52.0"W) is on the right

IUEM (GPS 48°21'32.0"N 4°33'47.3"W) a few meters further on the left