



International Nutrient Inter-Comparison: Newsletter #13

We're off! Thanks for all your input and support!

INIV is underway!

Registration for the INIV events occurring parallel to the voyage are now open; if you haven't had a chance to yet, please register:

[CSIRO's International Nutrient Inter-comparison Voyage Broadcast](#) – 6, 8, 10, 12, 14 and 16 June 2023

[CSIRO Ocean Nutrient Symposium](#) – 20 June 2023

For any question about the symposium contact Julie Janssens (Julie.janssens@csiro.au).

Symposium Kicks Off

Presentations kicked off with Chief Scientist Andreas Marouchos at the official International Nutrient inter-Comparison Voyage Launch on June 2nd featuring keynote speaker Christina Schallenberg.

Upcoming Program

Prepare to be inspired, challenged, and transformed as we gather to shape the future of oceanographic nutrient analysis. We look forward to welcoming you to an unforgettable Symposium experience accessible via live webcasts from the *RV Investigator*.

Broadcasts from the voyage will occur on the 6th, 8th, 12th, 14th, and 16th of June, covering unique aspects of nutrient analysis, data interpretation, and nutrient impacts on ocean research from our international collaborators. All of which will culminate on our full day symposium on June 20th from the CSIRO Auditorium in Hobart.

Welcome

Welcome to the thirteenth INIV newsletter. As we say bon voyage to our dear researchers in this send-off newsletter, you will find exciting updates, important information, and valuable resources to enhance your Symposium experience.

Broadcast from the International Nutrient inter-Comparison Voyage

Hear from researchers working at sea on a project to reduce seawater nutrient measurement errors
Broadcast from RV Investigator

Date		Time	Title	Presenter
Tuesday	6th of June	16:00 AEST	Use of reference materials for nutrients in seawater and comparability of nutrients in the world's oceans.	Susan Becker, Scripps Institution of Oceanography, USA
		16:30 AEST	Nutrient measurements in Patagonia, Argentina	Paula Berjmero, Centro para El Estudio de Sistemas Marinos (CESIMAR-CONICET), Argentina
Thursday	8th of June	16:00 AEST	A summary of the work done in the homogeneous Weddell Sea interior over the last 25 years	Karel Bakker, Royal Netherlands Institute for Sea research (NIOZ), the Netherlands
		16:30 AEST	The accidental chemist	Susan Allender, School of Ocean Science, Bangor University, UK
Monday	12th of June	16:00 AEST 16:30 AEST	Nutrient measurement at sea demonstration	TBD
Wednesday	14th of June	16:00 AEST	Automated calibration by a single standard solution and automated dilution of seawater samples by novel programmable flow injection (pFi) technique	Madeline Davis, University of Hawaii (and Mariko Hatta)
		16:30 AEST	TBD	TBD
Friday	16th of June	9:00 AEST	CTD sampling at sea demonstration	TBD

	8:00-15:20	Title	Presenter	
20th of June - CSIRO Auditorium	8:00-8:30	An overview of the INIV Voyage and Symposium	Andreas Marouchos, Engineering and Technologies, CSIRO, Australia	
	8:30-8:50	Tracking and understanding change in the Southern Ocean: 30 years of measurements on the SR3 repeat section	Steve Rintoul, Environment, CSIRO Australia	
	8:50-9:10	Introduction to XMU Nutrient Lab and iSea	Teng-Yue Fang, State Key Laboratory of Marine Environmental Science, Xiamen University, China	
	9:10-9:30	The programmable Flow Injection Ocean Nutrient Analyzer (pFIONA): a cost-effective and versatile solution for unattended nutrient analysis	Maxime Grand, Moss Landing Marine Laboratories, San Jose State University, CA, USA	
	9:30-10:00	Morning Tea		
	10:00-10:20	Oceanic nutrient supply to southeast Tasmanian coastal waters is modified by seasonal boundary currents	Karen Wild-Allen, Environment, CSIRO Australia	
	10:20-10:34:00	Validation of pasteurization as an alternative technique for preserving nutrients in seawater samples	Anne Daniel, IFREMER, France	
	10:40-11:30	Panel Discussion: How to Maintain comparability of nutrient measurements	Karel Bakker, NIOZ, The Netherlands	
	11:30-12:40	Lunch		
	12:40-13:00	Environmental drivers modulating phytoplankton seasonal succession along the Northern Antarctic Peninsula	Raul Rodrigo, Instituto De Oceanografia, Federal University of Rio Grande, Brazil	
	13:00-13:20	Results from a nutrient freezing experiment	Peter Hughes, National Collections and Marine Infrastructure, CSIRO, Australia	
	13:20-13:40	Macronutrient biogeochemistry in Antarctic land-fast sea ice: insights from a circumpolar data compilation	Sian Henley, School of Geoscience, University of Edinburgh (Presenting: Delphine Lannuzel, Institute for Marine and Antarctic Studies, Australia)	
	14:00-14:10	Closing Ceremony	TBC	
	14:15-14:45	Afternoon Tea		
	14:50-15:20	Optional Tours: Hobart labs, RV Investigator, HydroBox, Fish collection		In person
	17:30	Symposium Dinner (by invite only) @ Rockwall		In person

Farewell and Gratitude

The *RV Investigator* sails off! May the winds be favourable, the seas be calm, and the discoveries be profound. We would like to extend a special thank you to all the individuals who have contributed their time, expertise, and creativity to our endeavours. Your dedication and collaboration have been instrumental in shaping our vision and bringing it to life. We look forward to future opportunities for collaboration and the possibility of working together again. Our shared commitment to excellence and the pursuit of knowledge will undoubtedly pave the way for even greater achievements in the future.

2023 International Nutrient Inter-comparison Voyage (INIV)
Our world partners



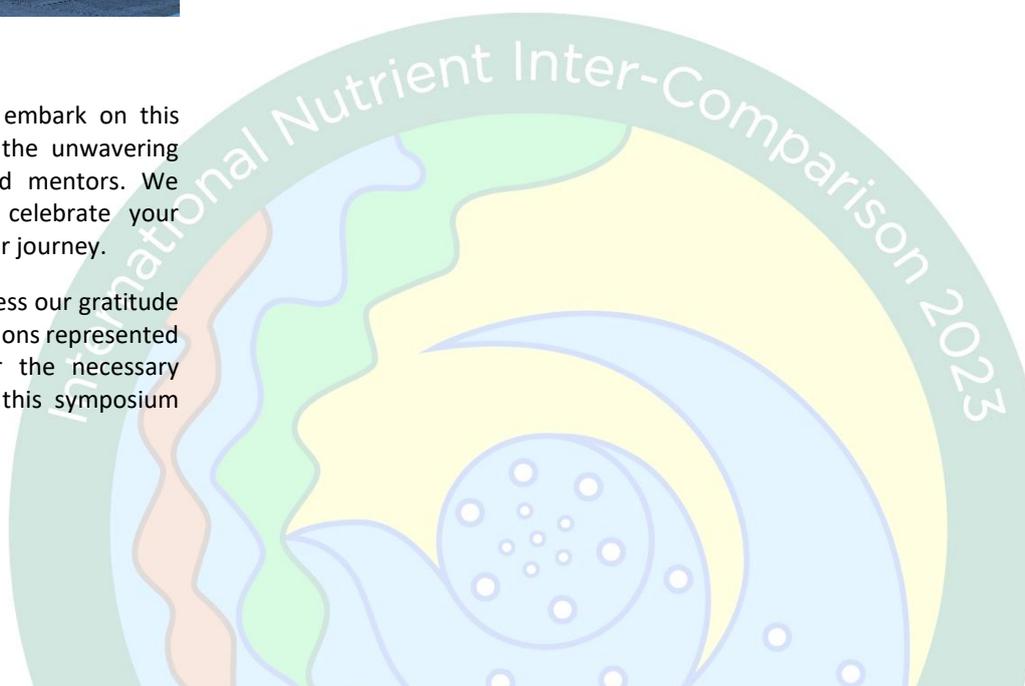
Figure 2. Participating organizations represented aboard INIV.



Figure 1. Pre-voyage group photo.

For those of you aboard INIV: as you embark on this research voyage, know that you have the unwavering support of your colleagues, peers, and mentors. We eagerly await your return, ready to celebrate your achievements and hear the stories of your journey.

We would like to take a moment to express our gratitude and appreciation to each of the organizations represented in our participant map (Figure 2) for the necessary resources and infrastructure to create this symposium experience.



Voyage Website

We have a website! Check it out for additional information about our voyage including voyage location, planning, getting involved, previous newsletters, FAQ and more: <https://wp.csiro.au/iniv>

Contact Us

Please feel free to reach out to the CSIRO Hydrochemistry team at any time during the planning process: iniv2022@csiro.au



As Australia's national science agency and innovation catalyst, CSIRO is solving the greatest challenges through innovative science and technology.

CSIRO. Unlocking a better future for everyone.

For further information

Hydrochemistry – National Collections and Marine Infrastructure (NCMI)

Julie Janssens

julie.janssens@csiro.au

<https://wp.csiro.au/iniv>