

Newsletter

Fall 2025 | Issue 5

Chemical Oceanography GRC

We are thrilled to share the success of the recent Chemical Oceanography Gordon Research Conference, held from July 20-25, 2025, at Southern New Hampshire University in Manchester, NH. This event gathered a diverse lineup of researchers, fostering dynamic discussions on advanced research. Attendees enjoyed engaging talks and a well-organized poster session that facilitated interaction, creating a valuable experience for all. This event was organized by Phoebe Lam (Chair of the US GEOTRACES SSC) along with Jay Cullen, Julien Middleton, and Gabriella Akpah Yeboah, who served as co-chairs for the GRC and GRS. We would also like to thank our contributors and sponsors: the GRS Frontiers of Science and the National Science Foundation (NSF). On behalf of the committee: *Thank you, and we look forward to seeing you at future events.*

GEOTRACES State Estimates (GSE)

GEOTRACES is launching an initiative to create global gridded climatologies for trace elements and isotopes (GSEs) to enhance data accessibility for new scientific communities. Each GSE will be produced through a Model Intercomparison Project (MIP) validated against GEOTRACES observations. Get Involved: Form a MIP team with modelers and observationalists; a Best Practice Guide will be available in February 2026, and you can register your interest [here](#). Watch this [video](#) for an introduction to the GSE. For questions, please contact Tom Weber (t.weber@rochester.edu) or Zanna Chase (zanna.chase@utas.edu.au)



Summer School 2025 Group Picture (Source: GEOTRACES IPO. Credit: Susanne Fietz and H el ene Planquette)

GEOTRACES Summer School 2025

The GEOTRACES Summer School 2025 took place from November 17 to 21, 2025, in Cape Town, South Africa, training 36 students in the marine biogeochemistry of trace elements and their isotopes. The program featured a combination of morning lectures, afternoon practicals, fieldwork, and evening events, led by 15 international GEOTRACES experts.

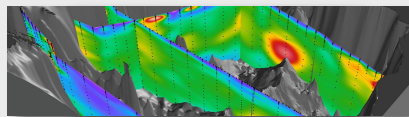
Lecturers: *Lise Artigue, Erin Bertrand, Ryan Cloete, Tim Conway, Greg Cutter, Susanne Fietz, Jessica Fitzsimmons, David Gonz alez Santana, Laramie Jensen, Rhiannon Jones, William M. Landing, Rob Middag, Taryn Noble, H el ene Planquette, Tommy Ryan-Keogh, Mak Saito, Alessandro Tagliabue, Adi Torfstein, Zhouling Zhang, Thato Mtshali.*

Scientific Committee: *H el ene Planquette, IUEM, France; Thomas Ryan-Keogh CSIR South Africa; Susanne Fietz, Stellenbosch University South Africa.*

The summer school was supported by the French National Centre for Scientific Research (CNRS) and the Scientific Committee on Oceanic Research (SCOR), GEOTRACES. [Link to the event.](#)

Data Synthesis Workshop for US GEOTRACES GP17-OCE

A data synthesis workshop for the U.S. GEOTRACES section GP17-OCE was held at Texas A&M University from March 10 to 12, 2025. Leading up to the workshop, GP17-OCE organized virtual synthesis seminars biweekly from January through March 2025 to prepare investigators for the in-person event. (*cont. next page*)



IDP2025

The [IDP2025](#) is available for:

- ❖ [bulk download](#)
- ❖ [subset via webODV](#)

In addition,

- ❖ analyze, explore and visualize the data online with [WebODV Explore](#)
- ❖ overview relevant tracers with section plots, 3D animations) with the [eGEOTRACES Electronic Atlas](#)
- ❖ videos: working with [IDP data & WebODV](#) and how to [use IDP for teaching](#).
- ❖ tools: helpful [tools](#) developed by IDP users.
- ❖ more tutorials: GEOTRACES [YouTube channel](#).
- ❖ GEOTRACES IDP Fair Use Agreement:
The GEOTRACES IDP2025 is open access, released under the Creative Commons By Attribution (CC-BY) License 4.0 as described in the [Fair Use Agreement](#).

- ❖ IDP205 Citation:

*GEOTRACES Intermediate Data Product Group (2025). The GEOTRACES Intermediate Data Product 2025 (IDP2025). NERC EDS British Oceanographic Data Centre NOC.
doi:10.5285/42c92148-8d03-8be6-e063-7086abc09f0c*

Advancing Synthesis Studies

We encourage the scientific community to develop integrative synthesis studies—both global and regional—connecting chemical, biological, and physical components using data and models from GEOTRACES and other ocean programs. For recent works and additional publications, please check our [Database](#).

Contributions - Contact Us

To contribute content for our next issue or share materials for the U.S. GEOTRACES website, please [email](#) us.

U.S. GEOTRACES Project Office
Lamont-Doherty Earth Observatory
Comer 231, 61 Route 9W
Palisades, NY 10964 U.S.

Email: geotraces@ldeo.columbia.edu

Web: <https://usgeotraces.ldeo.columbia.edu>

Early data from GP17-OCE submitted for IDP2025 included: hydrography and macronutrient data, pigments, dissolved barium concentrations, dissolved ^{226}Ra , size-fractionated PIC, dissolved gallium, dissolved total and labile cobalt, aerosol and seawater ^7Be .

GEOTRACES Intermediate Data Product Launch



The [GEOTRACES Intermediate Product 2025](#) (IDP2025) was launched online on November 20, 2025, with webinars held on November 20 and 25 to reach a broader audience. [View full event recording](#). The IDP2025 offers extensive hydrographic and marine geochemical data from research cruises across all ocean basins. It includes a digital data package and an *eGEOTRACES Atlas* for visualizing data through section plots and 3D animations. The webODV tool provides online Ocean Data View services like the extraction, analysis, exploration and visualization of oceanographic and other environmental data. Users may find this tool particularly valuable as it allows the user to select subsets of data to be extracted and downloaded for further use. To explore more related resources and links, check out the sidebar on the left. Additionally, for more information about the webinar: [GEOTRACES Intermediate Data Product \(IDP\): What does it include and how can it be accessed?](#)

There is a related online resource: The webinar [Linking Multi-Disciplinary Data with webODV](#) showcases new features in ODV and webODV for accessing high-quality datasets. You will learn best practices for browser-based tools, navigation and use of ODV and webODV, and visualizing multi-disciplinary datasets.

Citation: *Schlitzer, R., & Mieruch-Schnülle, S. (2025). FAIR-EASE Webinar: Linking Multi-Disciplinary Data with webODV. Zenodo. <https://doi.org/10.5281/zenodo.15799234>*

Conferences, Workshops and Schools

- ❖ [Fall AGU2025](#): December 15-19, 2025, New Orleans, LA, US.
 - ❖ [Ocean Sciences Meeting 2026](#): February 22-27, 2026, Glasgow, UK.
 - ❖ [EGU General Assembly 2026](#): May 3-8, 2026, Vienna, Austria.
 - ❖ [Goldschmidt 2026](#): July 12-17, 2026, Montreal, Canada.
- Meetings for which final dates are not yet set:
- ❖ [GEOTRACES GP17-ANT Data Synthesis Meeting](#): June, 2026.
 - ❖ [U.S. GEOTRACES SSC Meeting](#): June, 2026, Alexandria, VA, US.

The U.S. GEOTRACES Program is supported by the National Science Foundation ([NSF](#)) and the Scientific Committee on Oceanic Research ([SCOR](#)).