

International Ocean Discovery Program
JOIDES Resolution Science Operator
FY25 Q3 Operations and Management Report

1 April–30 June 2025
Cooperative Agreement OCE-1326927

Submitted by the JRSO to
The National Science Foundation
and
The *JOIDES Resolution* Facility Board
17 July 2025



Introduction

This technical report reflects the activities for the third quarter (Q3) of the no-cost extension year of the National Science Foundation (NSF) award to manage and operate the *JOIDES Resolution* for the International Ocean Discovery Program (IODP). Post-IODP obligations related to expeditions conducted during IODP are funded by a separate award to the Texas A&M University Research Foundation (TAMRF). Consequently, the activity in the no-cost extension year relates to financial processing of commitments made during IODP and related tasks that are not explicitly covered by the post-IODP obligation award.

Financial closeout

During Q3, administrative activities on the project focused on one of three areas:

- Subcontracts: all ODL and Schlumberger invoices have been paid, and both agreements have ended. The Rutgers agreement for storage of cores, which was earlier extended to 30 September 2025, is still underway. The PI has been notified that this agreement will not be continued via the *JOIDES Resolution* Science Operator (JRSO) award, and a final invoice will be received in late Q4.
- NSF Expedition 501: costs associated with JRSO's support of Expedition 501 are being processed, including salaries, sea pay, travel, shipping of equipment, and other related expenses.
- Analytical equipment: orders have been placed for the NSF-approved analytical equipment, and some items have arrived and are being set up. Due to long lead times on some equipment purchases, a no-cost extension will be requested to allow for installation, setup, training of staff, and invoicing.

25% of the IODP General Manager's time continues to be charged to the JRSO funds to coordinate the project closeout.

Other activity

Effort associated with NSF's tasking JRSO to support various aspects of IODP³–NSF Expedition 501 located offshore New England continued. The first Texas A&M University (TAMU) staff member boarded the Expedition 501 vessel on 29 April 2025 in port in Bridgeport, CT, and rotated with the second TAMU staff member on 20 June 2025; the latter will sail on board until the end of the expedition in early August.

At the beginning of the quarter, NSF approved our request to purchase analytical equipment that was either imminent for us to replace or had been long-standing requests by the community that would have been purchased if the *JOIDES Resolution* had continued operations, either for shipboard or shore-based analyses. New equipment will be installed in the Gulf Coast Repository (GCR). By the end of May, purchase orders for all equipment had been issued. The replacement microscope cameras were received, and the invoice was paid by the end of the quarter. Finalizing the installation of the cameras will occur next quarter. Additional effort was also initiated to complete the San Andreas Fault Observatory at Depth (SAFOD) google site and register SAFOD samples in the System for Earth Sample Registration (SESAR).

Publications authored by staff

Articles and abstracts published during this quarter where the some of the research occurred when staff were active on this award include the following. Bold type indicates JRSO staff.

Articles authored by JRSO staff

Blum, P., Huang, H.-H.M., Herbert, T., Hodell, D.A., Abrantes, F., and **Alvarez Zarikian, C.A.**, 2025. Data report: implications of using the CSF-B depth scale type for stratigraphic correlation at IODP Expedition 397 Site U1588. In Hodell, D.A., Abrantes, F., Alvarez Zarikian, C.A., and the Expedition 397 Scientists, Iberian Margin Paleoclimate. Proceedings of the International Ocean Discovery Program, 397: College Station, TX (International Ocean Discovery Program). <https://doi.org/10.14379/iodp.proc.397.201.2025>

Clementi, V.J., Hong, W.-L., Rosenthal, Y., Bova, S.C., and **Childress, L.B.**, 2025. Pore fluid origins, circulation, and links with methane hydrate on the south-central Chilean Margin. *Geochemistry, Geophysics, Geosystems*, 26(4):e2025GC012195. <https://doi.org/10.1029/2025GC012195>

Di Chiara, A., Satolli, S., Friedman, S.A., Dwyer, D., Acton, G.D., Jones, T.D., Karatsolis, B.T., Pearson, P.N., Suzuki, T., Modestou, S., O'Connell, S., Ibrahim, H., Jasper, C.E., LeBlanc, D.E., Lee-Takeda, S., Thulasi, T., Eason, D.E., Sinnesael, M., Hochmuth, K., Briais, A., Parnell-Turner, R., **LeVay, L.J.**, and Expedition 395C/395 Science Party, 2025. Geomagnetic excursions recorded in North Atlantic IODP Expedition 395C Sites U1555 and U1563. *Geochemistry, Geophysics, Geosystems*, 26(6):e2025GC012220. <https://doi.org/10.1029/2025GC012220>

FUTURE 2024 PI-team, Appelgate, B., Dugan, B., Eguchi, N., Fornari, D., Freudenthal, T., Fulton, P., Kelley, S., Lang, S.Q., Manalang, D., Mix, A., Trask, R., Andrys, J., Beethe, S., Bridgham, H., Cabaniss, H., Cargill, S.K., Conroy, C.W., Costa, K., Cox, A., Cross, A., Dwyer, D., Dodd, J., Donnelly, J., Finlayson, V., Hashim, M., Heaton, D., Huber, J., Hupp, B., Jackson, M.G., Jasper, C., Kitajima, H., Libman-Roshal, O., Lowery, C.M., Maletic, E., Marranzino, A.N., Mejía-Mercado, B.E., Morrow, T., Yobo, L.N., Pallone, C., Panter, K., Patterson, M., Peccia, A., **Ronge, T.A.**, Roth, E., Staro, A., Stelling, K., Todes, J.P., Tsang, M.-Y., Wieman, S.T., Konrad, K., Reilly, B., Schrenk, M., Walczak, M., and Tominaga, M., 2025. The FUTURE of the US marine seafloor and subseafloor sampling capabilities. *AGU Advances*, 6(3):e2024AV001560. <https://doi.org/10.1029/2024AV001560>

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Gebhardt, C., DeSchepper, S., Adukkam Veedu, S., Goss, G., Greco, N., Kapuge, A., Lam, A., Libman-Roshal, O., Monito, L., Sakai, Y., Suganuma, Y., Lucchi, R. G., St. John, K., **Ronge, T. A.**, Barcena, M., Duxbury, L., Gonzalez-Lanchas, A., Grützner, J., Haygood, L., Husum, K., Iizuka, M., Liu, Y., Reilly, B., Rosenthal, Y., Zhong, Y., and the JOIDES Resolution Exp403 technical support team, 2025. Recurrent physical-properties pattern for three post Mid-Brunhes interglacials off Western Svalbard. Presented at the ICAM-X 10th International Conference on Arctic Margins, Bremen, Germany.

Grützner, J., Gebhardt, C., Plaza-Faverola, A., Bünz, S., Geissler, W., Lucchi, R. G., St. John, K., **Ronge, T. A.**, Adukkam Veedu, S., Barcena, M., DeSchepper, S., Gonzalez-Lanchas, A., Husum, K., Duxbury, L., Goss, G., Greco, N., Haygood, L., Iizuka, M., Rosenthal, Y., Sakai, Y., Suganuma, Y., Zhong, Y., and the JOIDES Resolution Exp403 technical support team, 2025. Toward a refined seismic stratigraphy for the Svyatogor Ridge (Fram Strait): preliminary results from core-log-seismic integration at IODP Expedition 403 Site U1620. Presented at the ICAM-X 10th International Conference on Arctic Margins, Bremen, Germany.

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