**Antarctic Research Voyages - *RV* *Tangaroa***

**Expression of Interest for Supplementary Science**

**Voyage January/February 2025 and 2027 (Exact Dates to be determined)**

**Introduction**

Planning is to commence for *RV Tangaroa* to undertake two 35-to-39-day voyages to the Antarctic/Ross Sea sector in 2025 and 2027.

Expressions of Interest (EOIs) are sought from the New Zealand science community that require the use of *Tangaroa* to undertake existing or proposed Crown funded research. Preference will be given to projects that meet New Zealand’s current Antarctic/Southern Ocean research strategies and priorities.

While the voyages will be led by New Zealand, consideration will also be given to voyage projects that include international collaboration and support (including coordination with other international research vessels).

This research shall already be funded or have a good chance of funding by the voyage date, for the equipment required during the voyage, the training and personnel required for the voyage, and for publishing any science conducted.

**Antarctic Working Group**

It is expected that a number of proposals will be received. As with previous years an Antarctic Working Group of key stakeholders will be formed and responsible for assessing the EOIs and developing a focussed coherent voyage programme. The final objectives and plans for the voyages will be peer reviewed for science excellence and submitted to the *Tangaroa* Reference Group (TRG Group) for final approval.

**Voyage Objectives**

The voyages are to support project activities funded by government stakeholders. Applicants must be prepared to have scientists at sea for the full voyage period. Voyage objectives will be determined by the Tangaroa Antarctic Working Group, based on the EOI applications received. These voyages are intended to be collaborative. While it is likely that an array of scientific objectives will be received, the Tangaroa Antarctic Working Group will aim to create an integrated programme of research, incorporating where possible requests for opportunistic data collection, both in transit and within the study region(s).

**Relevant Science Strategies & Priorities**

NZ’s Antarctic interests include:

* Scientific research - supporting, and where appropriate leading, high quality scientific research in the Antarctic and the Southern Ocean.
* Scientific research and monitoring supporting the Ross Sea Marine Protected Area (MPA).
* Biodiversity protection - conserving, protecting and understanding the biodiversity of Antarctica and the Southern Ocean, particularly the Ross Sea region. This includes promoting, protecting and managing representative special areas and enhancing biosecurity.
* Conservation - managing marine living resources of the Southern Ocean, and in particular the Ross Sea, in a sustainable way; working with the Committee for the Conservation of Antarctic Marine Living Resources (CCAMLR) and the Committee for Environmental Protection (CEP) to support strong environmental standards and sustainable economic benefits.
* Environmental stewardship - demonstrating and advocating for best practice in environmental stewardship and all other activities throughout Antarctica, particularly in the Ross Sea region.

Other key documents/initiatives outlining research priorities that should be considered include:

* The [Aotearoa New Zealand Antarctic and Southern Ocean Research Directions and Priorities 2021-2030](https://d1e7mq055r7tid.cloudfront.net/images/Aotearoa-New-Zealand-Antarctic-Research-Directions-and-Priorities-2021-2030_Final-16-Dec-2021.pdf) document
* The research objectives and themes of the *Antarctic Science Platform* hosted by Antarctica NZ.
* The *Deep South* *National Science Challenge* Research Plan.
* The *Research and Monitoring Plan for the Ross Sea Marine Protected Area* This provides guidance on the research the New Zealand government has identified as high priority to support its objectives in international forums. See [Ross Sea region Marine Protected Area | New Zealand Ministry of Foreign Affairs and Trade (mfat.govt.nz)](https://www.mfat.govt.nz/en/environment/antarctica-and-the-southern-ocean/ross-sea-region-marine-protected-area/) and [Ross Sea MPA documents | New Zealand Ministry of Foreign Affairs and Trade (mfat.govt.nz)](https://www.mfat.govt.nz/en/environment/antarctica-and-the-southern-ocean/ross-sea-mpa-documents/)for relevant information and science documents.

**Voyage Requirements**

Those submitting an EOI should note that the following resources, equipment and activities will need to be covered by the applicant, along with any associated costs:

* All science/survey personnel directly relevant to your specific objectives.
* Equipment (note that NIWA owned science equipment may be available for hire) and project specific consumables for the voyage.
* Comprehensive Medicals (contact NIWA for further detail) and basic marine survival training (STCW) for all your science/survey personnel participating on the voyage.
* Any additional vessel crew required (Dynamic Positioning operators if required, additional deck crew for labour intensive voyages) and extra fuel used if the vessel is required to use its Dynamic Positioning System for significant periods.
* All your own project logistics including travel to and from the vessel for science/survey personnel and loading of equipment.
* All project specific ship to shore satellite phone communications by science/survey staff during the voyage.
* Insurance for equipment loss or damage during the voyage (NIWA will not cover liability for any third party equipment lost or damage during the voyage).
* NIWA technical personnel required to run vessel sounders (e.g., EM302/TOPAS etc) if required.
* Production of project specific Health and Safety Plans, JSEA’s and SOP’s for any update to procedures or new procedures.
* Any required HSE Audit or due diligence exercises that are required for the specific project or by the applicant or their collaborators.
* Parties are required to adhere to NIWA’s Health & Safety requirements. This may require medicals or training by science/survey personnel in advance of the voyage.
* The requirement to read, understand and sign NIWA’S Acknowledgment of Risk and Safety DutiesAgreement.
* Obtaining required consents, permits and permissions for your specific objectives.
* Data management – The applicant must define the data streams from the voyage and intended ownership and access of the data, which must be consistent with the New Zealand Government Open Access and Licensing Framework (NZGOAL).

Applicants should contact Rob Christie at NIWA directly (Tel: 043860881 and e-mail: rob.christie@niwa.co.nz) for further information on logistical requirements and costs.

**EOI Submission Date**

All EOIs must be submitted to NIWA (Rob Christie, rob.christie@niwa.co.nz) by 1 June 2023using the EOI template provided below. Please inform NIWA if the proposed research within your EOI is dependent any research fund application yet to be granted. EOIs are not expected to be longer than 2-3 pages. Further information will be sought should your project be included in the voyage programmes.

**EOI TEMPLATE**

|  |  |
| --- | --- |
| Proposal Title |  |
| Organisation |  |
| Project Leader | ***Name and brief outline on vessel going experience.*** |
| Address |  |
| Phone |  |
| Email |  |
| Proposed Project ObjectivesDescribe the outcome to be achieved and why these are required/relevant to NZ’s Antarctic/Southern Ocean Strategic Directions | ***Please bullet point the following:**** ***Overall voyage science objective(s)***
* ***Strategic rationale***
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| Vessel requirements  | ***Note: this will be a collaborative voyage so please identify logistical requirements on the vessel to undertake the proposed project (e.g., personnel, vessel sampling time, deck space, laboratories, winches etc). Identify if these can be run in parallel with any other activity.*** |
| Proposed Project Methodology  |  |
| Consents, Permits and PermissionsIdentify any anticipated specific consents for the proposed project. |  |
| International collaboration and supportDescribe any international collaboration associated with the science and/or voyage, including in kind/funding support.  |  |
| FundingProvide estimate of funds available to support the project. |  |