**TEMPLATE TO REQUEST SHIP TIME**

**R/V Gaia Blu**

Call for proposal 2025 (ship time requests for 2026 and 2027)

# CRUISE INFORMATION

|  |  |
| --- | --- |
| Acronym | Click here to enter text. |
| Title | Click here to enter text. |
| Working area | Click here to enter text. |
| EEZ (ITA, FR, etc) | Click here to enter text. |
| Favourite year and period of the year | Click here to enter text. |

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| **Application Category** (multiple choice if needed) | |
| Research cruise |  |
| Ship time opportunity (broaden data collection during pre-scheduled cruises) |  |
| Cruise with an educational, training, and outreaching focus |  |
| Long-term monitoring (proposal to support time-series development) |  |
| Maintenance of marine observatories and infrastructures |  |
| Other: Click here to enter text. |  |

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| --- | --- | --- | --- | --- |
| **Research Field Category** (multiple choice if needed) | | | |  |
| **Domain** | **Panel** | | |  |
| **Name** | **Discipline** | **Description of discipline** |  |
| **Physical sciences and engineering (PE)** | PE1 | Mathematical foundations | All areas of mathematics, pure and applied, plus mathematical foundations of computer science, mathematical physics and statistics |  |
| PE2 | Fundamental constituents of matter | Particle, nuclear, plasma, atomic, molecular, gas, and optical physics |  |
| PE3 | Condensed matter physics | Structure, electronic properties, fluids, nanosciences |  |
| PE4 | Physical and analytical chemical sciences | Analytical chemistry, chemical theory, physical chemistry/chemical physics |  |
| PE5 | Materials and synthesis | Materials synthesis, structure-properties relations, functional and advanced materials, molecular architecture, organic chemistry |  |
| PE6 | Computer science and informatics | Informatics and information systems, computer science, scientific computing, intelligent systems |  |
| PE7 | Systems and communication engineering | Electronic, communication, optical and systems engineering |  |
| PE8 | Products and processes engineering | Product design, process design and control, construction methods, civil engineering, energy systems, material engineering |  |
| PE9 | Universe sciences | Astro-physics/chemistry/biology; solar system; stellar, galactic and extragalactic astronomy, planetary systems, cosmology, space science, instrumentation |  |
| PE10 | Earth system science | [Physical geography, geology, geophysics, meteorology, oceanography, climatology, ecology, global environmental change, biogeochemical cycles, natural resources management.](https://en.wikipedia.org/wiki/Biogeochemical_cycle) |  |
| **Social sciences and humanities (SH)** | SH1 | Individuals, institutions and markets | Economics, finance and management |  |
| SH2 | Institutions, values and beliefs and behaviour | Sociology, social anthropology, political science, law, communication, social studies of science and technology |  |
| SH3 | Environment and society | Environmental studies, demography, social geography, urban and regional studies |  |
| SH4 | The Human Mind and its complexity | Cognition, psychology, linguistics, philosophy and education |  |
| SH5 | Cultures and cultural production | Literature, visual and performing arts, music, cultural and comparative studies |  |
| SH6 | The study of the human past | Archaeology, history and memory |  |
| [**Life sciences (LS)**](https://en.wikipedia.org/wiki/Life_sciences) | LS1 | Molecular and Structural Biology and Biochemistry | Molecular biology, biochemistry, biophysics, structural biology, biochemistry of signal transduction |  |
| LS2 | Genetics, Genomics, Bioinformatics and Systems Biology | Genetics, population genetics, molecular genetics, genomics, transcriptomics, proteomics, metabolomics, bioinformatics, computational biology, biostatistics, biological modelling and simulation, systems biology, genetic epidemiology |  |
| LS3 | Cellular and Developmental Biology | cell biology, cell physiology, signal transduction, organogenesis, developmental genetics, pattern formation in plants and animals |  |
| LS4 | Physiology, Pathophysiology and Endocrinology | Organ physiology, pathophysiology, endocrinology, metabolism, ageing, regeneration, tumorigenesis, cardiovascular disease, metabolic syndrome |  |
| LS5 | Neurosciences and neural disorders | Neurobiology, neuroanatomy, neurophysiology, neurochemistry, neuropharmacology, neuroimaging, systems neuroscience, neurological disorders, psychiatry |  |
| LS6 | Immunity and infection | Immunobiology, aetiology of immune disorders, microbiology, virology, parasitology, global and other infectious diseases, population dynamics of infectious diseases, veterinary medicine |  |
| LS7 | Diagnostic tools, therapies and public health | Aetiology, diagnosis and treatment of disease, public health, epidemiology, pharmacology, clinical medicine, regenerative medicine, medical ethics |  |
| LS8 | Evolutionary, population and environmental biology | [Evolution, ecology, animal behaviour, population biology, biodiversity, biogeography, marine biology, ecotoxicology, prokaryotic biology](https://en.wikipedia.org/wiki/Ecotoxicology) |  |
| LS9 | Applied life sciences and biotechnology | Agricultural, animal, fishery, forestry and food sciences; biotechnology, chemical biology, genetic engineering, synthetic biology, industrial biosciences; environmental biotechnology and remediation |  |
| **Keywords** (max 5). If relevant, refer to sub-panel ERC structure | | | | |
| 1) Click here to enter text. | | | | |
| 2) Click here to enter text. | | | | |
| 3) Click here to enter text. | | | | |
| 4) Click here to enter text. | | | | |
| 5) Click here to enter text. | | | | |

# PRINCIPAL INVESTIGATOR (PI), CO-PI and CHIEF SCIENTIST

|  |  |
| --- | --- |
| PRINCIPAL INVESTIGATOR (PI) | |
| Last name: | Click here to enter text. |
| First name: | Click here to enter text. |
| Email: | Click here to enter text. |
| Phone number: | Click here to enter text. |
| Organisation: | Click here to enter text. |
| Type of organisation: | Click here to enter text. |
| Website: | Click here to enter text. |

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| CO-PI (complete this field with a CNR affiliate solely when the Principal Investigator is external to CNR) | |
| Last name: | Click here to enter text. |
| First name: | Click here to enter text. |
| Email: | Click here to enter text. |
| Phone number: | Click here to enter text. |
| Organisation: | Click here to enter text. |
| Type of organisation: | Click here to enter text. |
| Website: | Click here to enter text. |

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| CHIEF SCIENTIST (CNR – Can be either the PI, CO-PI or another CNR affiliate) | |
| Last name: | Click here to enter text. |
| First name: | Click here to enter text. |
| Email: | Click here to enter text. |
| Phone number: | Click here to enter text. |
| Institute: | Click here to enter text. |

# ABSTRACT

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| *max. 2000 characters*  Click here to enter text. |

# RESEARCH OVERVIEW

## State of the art (max 1 page)

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| *Introduce the state of the art including fundamental knowledge gaps in the field. References can be placed in section 11 and do not count for page length.*  Click here to enter text. |

## Cruise objectives (max 0.5 page)

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| *Clearly define the cruise short- and long-term objectives and how the research outcomes will address significant challenges and advance knowledge in the field.*  Click here to enter text. |

## Research Methods (max. 0.5 page)

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| *Briefly discuss the research methods in relation to the cruise objectives presented.*  Click here to enter text. |

## Integration within national and international programs (max 0.5 page)

|  |
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| *Describe how the proposed activities align with national and international research initiatives or programs.*  Click here to enter text. |

# TEAM CAPABILITIES AND RESPONSABILITIES

## General and Individual Team role and expertise (max 1.5 page)

*Briefly introduce the core competence of the Team. Then, fill the tables, present the personnel involved in the cruise activity, his/her Academic/Research position, organisation, expertise and responsibility during the cruise. Where possible, promote gender balance and equitable representation among participants on the research cruise*

Click here to enter text.

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| Last name, First name: | Click here to enter text. |
| Position: | Click here to enter text. |
| Organisation: | Click here to enter text. |
| Expertise: | Click here to enter text. |
| Role during the cruise: | Click here to enter text. |

*Add as many entries as necessary*

## Involvement of early career scientists and training activities (max 0.5 page)

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| *Present whether the cruise promotes early career researchers (ECRs) and offers training activities for students.*  Click here to enter text. |

## CV of the Principal Investigator (max 1 page)

ORCID ID: Click here to enter text.

Academic/Research position:

Click here to enter text.

University Education and Academic Degrees:

Click here to enter text.

Commission of trust (e.g. Editorial Boards, Scientific Committees, etc):

Click here to enter text.

Cruise participations/Sea-going skills:

Click here to enter text.

Main Research Interests and Achievements:

Click here to enter text.

5 selected publications

1. Click here to enter text.

2. Click here to enter text.

3. Click here to enter text.

4. Click here to enter text.

5. Click here to enter text.

## CV of the Co-PI (max 1 page)

ORCID ID: Click here to enter text.

Academic/Research position:

Click here to enter text.

University Education and Academic Degrees:

Click here to enter text.

Commission of trust (e.g. Editorial Boards, Scientific Committees, etc):

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Cruise participations/Sea-going skills:

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Main Research Interests and Achievements:

Click here to enter text.

5 selected publications

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## CV of the Chief Scientist (max 1 page)

ORCID ID: Click here to enter text.

Academic/Research position:

Click here to enter text.

University Education and Academic Degrees:

Click here to enter text.

Commission of trust (e.g. Editorial Boards, Scientific Committees, etc):

Click here to enter text.

Cruise participations/Sea-going skills:

Click here to enter text.

Main Research Interests and Achievements:

Click here to enter text.

5 selected publications

1. Click here to enter text.

2. Click here to enter text.

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# WORK PLAN

## Detailed description of the work plan (max 2 pages)

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| *Provide a comprehensive overview of the work plan, detailing all planned activities and their respective timelines.*  Click here to enter text. |

## Description of the dissemination activities (max 0.5 page)

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| *Provide a comprehensive overview of any dissemination, outreach, media coverage activity etc you intend to organize during the cruise. On top of specific activities organized on your own, by ticking this box, the Team shall remain fully committed to follow the dissemination policy of R/V Gaia Blu* *along the guidelines outlined in Annex 3 that are available in the call for proposal documents. No exceptions will be considered*  Click here to enter text. |

## Map of the study area (max 1 page)

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| *Copy here a detailed map containing all the planned acquisition (cruise track, stations, lines and polygons of interest) and an illustrative caption with legend. The map shall be complemented by georeferenced information (e.g. geoTIFF, KLM, shapefile, etc) attached as separate files to the application. The georeferenced files shall contain the information request in the tables below.*  Click here to enter text. |

|  |  |  |  |  |  |
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| **SAMPLING STATIONS** | | | | | |
| Station ID | Depth (m) | Lat (WGS84) DD.XXXX | Long (WGS84) DD.XXXX | EEZ (e.g. IT, FR,... ) | Operation (CTD, sediment sampling, deployment of equipment, ROV, etc) |
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| **GEOPHYSICAL LINES/POLYGONS** | | | | | | | |
| Line/Polygon ID | START Lat (WGS84) DD.XXXX/Vertex | START Long (WGS84) DD.XXXX/Vertex | END Lat (WGS84) DD.XXXX/Vertex | END Long (WGS84) DD.XXXX/Vertex | Length /area | EEZ (e.g. IT, FR,..) | Operation (multibeam, chirp, etc) | |
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## General logistics and requirements

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| Preferred harbor of mobilization:  Click here to enter text.  Preferred harbor of demobilization:  Click here to enter text.  Preferred period(s) (motivated according to the research objectives):  Click here to enter text.  Foreseen days at sea including transit time between stations and study areas:  Click here to enter text.  Heavy equipment that will be embarked (e.g. containers, ROV, etc):  Click here to enter text.  Number of berths (indicate the number of people necessary for each task) (max 21 berths):  Click here to enter text. |

# EQUIPMENT AND FACILITIES

|  |  |
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| *For the equipment available onboard, please select all the equipment required to achieve the cruise plan's objectives*: | |
| **SCIENTIFIC EQUIPMENT IN THE KEEL** |  |
| Kongsberg EM 2040-04 (200-400 kHz) – multibeam echosounder (< 250 m) |  |
| Kongsberg EM712 (70-100 kHz) - multibeam echosounder (200-1000/1200 m) |  |
| Kongsberg EM304 (50 kHz) – multibeam echosounder (1000-5000 m) |  |
| Kongsberg Seapath 380 – Position, attitude, time and heading sensor |  |
| Valeport: Sound Velocity Profiler MIDAS SVP (6000 m), Sound Velocity Sensor MiniSVS, altimeter VA500 |  |
| Kongsberg Seatex MRU-5 Motion Sensor |  |
| SIMRAD EK60 – 6 single-beam echosounder (ES18, ES38B, ES70-C, ES120-7C, ES200-7C e 710-30) with EK80 software |  |
| SIMRAD EA600 – 4 single-beam echosounder (12-16, 38-9, 120-25 e 200-28) |  |
| SIMRAD SH90 – [Fish finding omnisonar](https://www.kongsberg.com/discovery/products/discontinued/sh90/) |  |
| Workhorse II Sentinel ADCP – Acoustic Doppler Current Profiler, 300 kHz (fup to 100-120m) |  |
| Pinnacle ADCP – Acoustic Doppler Current Profiler 45 kHz (up to 700-1000m) |  |
| Knudsen 3260 – Chirp sonar profiler, 12kHz + 9 trasduttori 3.5kHz |  |
| HiPAP 352(P) – Ultra-short baseline system (USBL), underwater positioning |  |
| Thermosalinograph SBE45 MicroTSG |  |
| **INTERNET CONNECTION** |  |
| C-band Maritime VSAT Antenna System (model v240 C) |  |
| Sea Tel 97 series |  |
| Land communication system (LTE, 5G) |  |
| Starlink Flat High-Performance Kit (Maritime/Energy) |  |
| **DECK FACILITIES** |  |
| Aft working area: 11.4 m x 10.8 m |  |
| J-frame (32 kN) with relocatable winch, 2000 m Dyneema rope |  |
| HIAB 121-2 crane, 1610 kg (port) |  |
| HIAB 301–4 crane, 1740 kg (starboard) |  |
| A-frame (89 kN), with Ibercisa 90 kN winch, 6000 m of 12.8-mm steel cable |  |
| Two sizes of bases for additional winches brought by research groups |  |
| Coring system: Carma® Handling system and gravity/piston corer CP-20 (for recovering sediment cores up to 25 meters long), Ibercisa 90 kN winch, 6000 m of 12.8-mm steel cable |  |
| HIAB 301–4 crane, 2100 kg (starboard) |  |
| CTD-Rosette system: LARS and Ibercisa winch (40 kN), 6000m Vectran rope, CTD SBE911plus and SBE32 Carousel with 24 12L Niskin bottles |  |
| 2 x L-ADCP Workhorse II Sentinel 300 kHz |  |
| ROV (Remotely Operated Vehicle) Aegir 250 with maximum operating depth of up to 2000 m.  The ROV is equipped with HD and 4K cameras and 2 manipulators.  (The ROV will be available from 2027. Applicants should allocate approximately €1,500-2,000 per day for its operation; the exact amount will be confirmed by the end of 2025) |  |
| **CARGO DECK** |  |
| Multipurpose space with power outlets and water connection, and reinforced base |  |
| ISO20 open top container for storing spare parts of piston corer and handling system |  |
| ISO20 refrigerated/freezer container |  |
| Working boat: PALFINGER FRSQ 630 |  |
| **WET AND DRY LAB** |  |
| Zeiss Stemi 508 Stereo Microscope with Axiocam 208 color camera |  |
| Fume hood |  |
| Refrigerators (+4, -20, -80 °C) |  |
| TCF 50 stove with forced ventilation |  |
| Stereomicroscope Zeiss Discovery V8 +Axiocam 208 color |  |
| PVC water line for continuous sampling of surface seawater |  |
| SOMA SINUS SODIAL sinusoidal volumetric pump model SCN25-SD-15 for continuous sampling of uncontaminated surface water |  |
| Milli-Q water system |  |
| **DEVICES AND SERVICES** |  |
| Computing Center with the following characteristics:   * 4 computing nodes, each with: * 1 Intel Xeon Gold processor, 16C/32T * 128 Gb RAM * 2 hard drives of 480GB * 4 10GbE base-T ports |  |
| VMware vCenter and ESXi software licenses |  |
| Scale-up storage system, with the following characteristics:   * + 12TB Read Intensive SSDs   + 100TB SAS/SATA disks   + Protocols for sharing multiple volumes, including NFS |  |
| Two Top of Rack switches, each with 28 10Base-T ports and 2 QSFP28 ports |  |
| Tape Library with LTFS Tape Cartridges file system for a total volume of 100TB |  |
| Management software: QSTAR Archive (for a volume of 100TB) |  |
| Ecosearch SM45 Weather Station, Apogee |  |
| SP-510 Thermopile Pyranometer |  |
| SL-510 Thermopile Pyrgeometer |  |
| LI-COR LI-192 – PAR Sensor by Campbell Scientific |  |
| CSAT3B – Tri-axial sonic anemometer |  |
| SI-111 – Precision infrared radiometer |  |
| Campbell Scientific, CR1000X – Datalogger |  |
| FishSky 360°– All Sky Camera |  |
| Navigation Software Qinsy 9 |  |
| Annual subscription for DGPS corrections |  |
| Satellite TV system |  |

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| - Equipment brought onboard:  Click here to enter text.  - Special requirements during the cruise:  Click here to enter text. |

# FEASIBILITY

## Financial support (max. 0.5 page)

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| *Describe how the proposed activities will be financially supported. Consider the following expenses before, during and after the cruise: travel, shipping, mob&demob, consumables, renting, custom, etc. Post cruise operations and analyses: personnel, cost for analyses, etc*  Click here to enter text. |

## Risk management and mitigation plan (max. 0.5 page)

|  |
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| *Identify potential risks and formulate clear and actionable mitigation strategies tailored to address each identified risk, considering both preventive measures and contingency plans.*  Click here to enter text. |

# IMPACT

## Potential impact of the research cruise (max 0.5 page)

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| *Present the expected outcomes of the research cruise*  *Below are a few examples, among others:*  *- Advancing scientific knowledge and understanding in a particular field*  *- Developing innovative technologies or methodologies*  *- Informing policy decisions*  *- Enhancing economic competitiveness through industry innovation and growth*  *- Addressing societal challenges such as climate change*  Click here to enter text. |

## Strengthening international collaborations (max. 0.5 page)

|  |
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| *Explain how the research outcomes will foster international collaborations and partnerships based on expected cruise outcomes (if applicable)*  Click here to enter text. |

# DATA POLICY

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| --- |
| *Data collection, storage, utilization must adhere to the guidelines outlined in Annexes 1 and 2 that are available in the call for proposal documents. No exceptions will be considered. The Information pursuant to Article 13 of EU Regulation 2016/679 (Annex 4) is available in the call for proposal documents.*  *By ticking this box, the Team shall remain fully committed to follow the data policy of R/V Gaia Blu* |

# REFERENCES

|  |
| --- |
| Click here to enter text. |

# ETICHS AND SAFETY

For the Research Ethics please refer to the “Guidelines for Research” Integrity compiled by the CNR Research Ethics and Integrity Committee https://www.cnr.it/sites/default/files/public/media/doc\_istituzionali/ethics/guidelines-for-research-integrity-2019.pdf

|  |  |  |  |
| --- | --- | --- | --- |
| **Animals** | | **YES** | **NO** |
|  | Does the proposed research involve research on animals? |  |  |
| **Environment, Health and Safety** | | **YES** | **NO** |
|  | Is the proposed research associated with any activities or materials that might pose risks to the environment, animals, or plants, such as genetically modified organisms (GMOs) or microorganisms? |  |  |
|  | Does the proposed research entail the utilization of substances (such as toxic chemicals, explosives, radioactive materials, etc.) that could potentially endanger human safety, including members of the research team? |  |  |
| **Monitoring of ship and laboratories for 14C and 3H contamination** | | **YES** | **NO** |
|  | Is the proposed research associated with any activities or material that involve the use of radiocarbon (14C) and/or tritium (3H)? |  |  |
| **Other Ethical Issues** | |  |  |
|  | Are there any other foreseen activities that may raise ethical issues or that should be taken in consideration? |  |  |
|  | If yes please specify: Click here to enter text. | | |

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature (PI)[[1]](#footnote-2)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. if the PI has CNR affiliation, the application form must also be countersigned by the Director of the Institute [↑](#footnote-ref-2)