



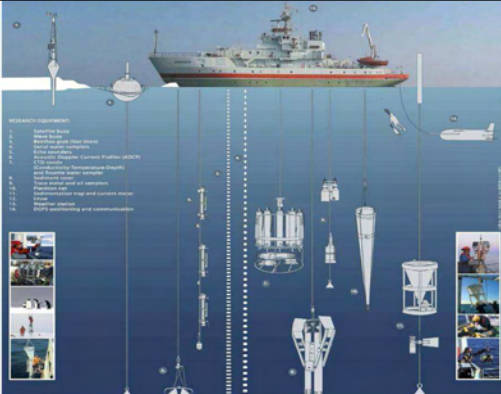
ACADEMY OF FINLAND
RESEARCH FUNDING AND SCIENCE POLICY

Marine research infrastructure needs long-term strategic planning

Eeva Ikonen & Kaisa Kononen

ACADEMY OF FINLAND
RESEARCH FUNDING AND SCIENCE POLICY

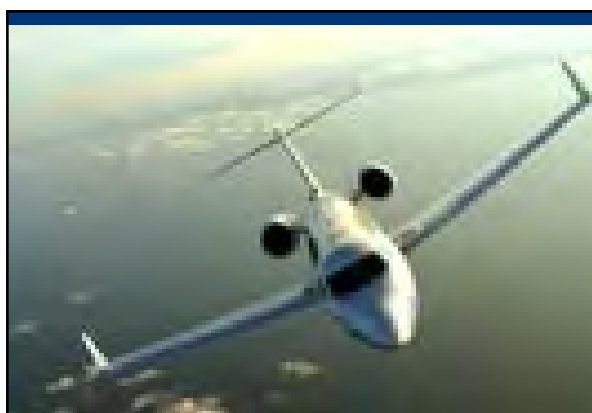
4.1.2008 1

RESEARCH INFRASTRUCTURE

- Research vessel
- Moored instruments
- Research aircraft
- Submersibles and unmanned vehicles
- Research gliders
- Autonomous underwater vehicles (AUVs)
- Deep-sea landers
- Deep-sea observatories
- Deep-sea drilling rigs and corers
- Deep-sea landers
- Deep-sea observatories
- Deep-sea drilling rigs and corers

ACADEMY OF FINLAND
RESEARCH FUNDING AND SCIENCE POLICY

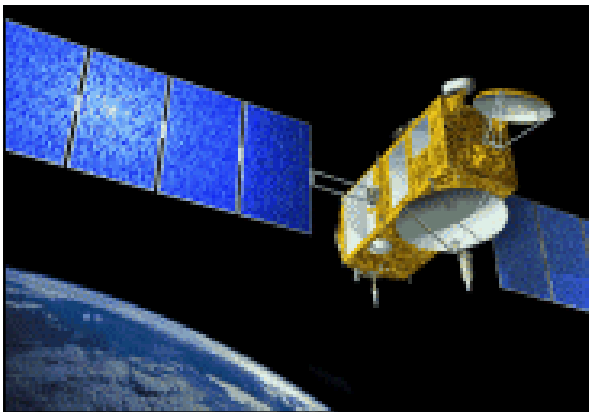
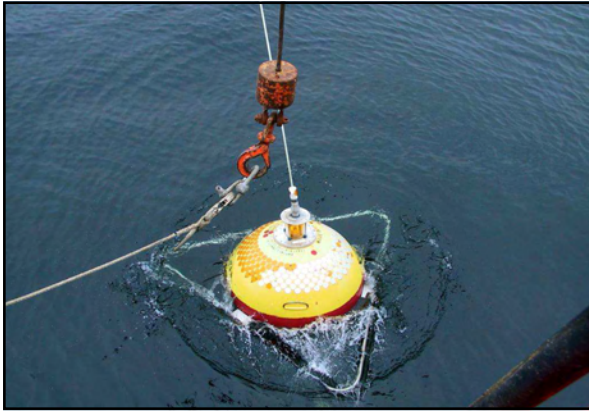


Marine research infrastructure is diverse

- research vessels,
- submersibles and unmanned vehicles,
- research aircraft,
- moored instruments,

ACADEMY OF FINLAND
RESEARCH FUNDING AND SCIENCE POLICY

4.1.2008 6



Marine research infrastructure is diverse

- research vessels,
- submersibles and unmanned vehicles,
- research aircraft,
- tide gauges, drifting observations facilities,
- coastal and marine observatories and field stations
- satellite oceanography centres,
- modelling and data centres,
-

ACADEMY OF FINLAND
RESEARCH INFRASTRUCTURE AND SCIENTIFIC POLICY

4.1.2006 10

Marine research infrastructure is diverse

- research vessels,
- submersibles and unmanned vehicles,
- research aircraft,
- tide gauges, drifting observations facilities,
- coastal and marine observatories and field stations
- satellite oceanography centres,
- modelling and data centres,
- ships of opportunity

ACADEMY OF FINLAND
RESEARCH INFRASTRUCTURE AND SCIENTIFIC POLICY

4.1.2006 11

The diverse infrastructure need to be used, maintained and reconstructed in a coordinated and synergistic way

- it is not a single investment, but consists of
 - common strategy
 - coordination
 - common use of facilities

ACADEMY OF FINLAND
RESEARCH INFRASTRUCTURE AND SCIENTIFIC POLICY

4.1.2006 12

Common strategy

ACADEMY OF FINLAND
4.1.2006 13

Coordination through ERA-NETs

MarinERA
BONUS for the Baltic Sea Science – Network of Funding Agencies

Both ERA-NETs have specific Tasks addressing infrastructure

- information exchange
- mapping marine research infrastructure facilities
- identifying prerequisites and potential solutions for common use and/or funding of infrastructure

ACADEMY OF FINLAND
4.1.2006 14

Example: Research Vessel data base

OCEANIC – World Wide Research Ships Schedules and Information
www.researchvessels.org/

European Centre for Information of Marine Science and Technology
www.eurocean.org/

BONUS for the Baltic Sea Science – Network of Funding Agencies
www.bonusportal.fi

ACADEMY OF FINLAND
4.1.2006 15

OCEANIC

Research Ship Schedules & Information

[Home] – [Cruise Schedule Search] – [Ship Specifications] – [Update Ship Data] – [About Ships]

Welcome to the International Research Vessel pages.

[Tech Links] – [Research Links] – [Upcoming Events] – [What's New] – [What's Old]

We Only Cover Research Vessels!

Oceanic - The Ocean Information Center - maintains a searchable database of cruise schedules and ship specifications and contact information for research vessels around the world.

We are always looking for ship specifications, cruise schedules, home pages and contact information for research vessels around the world. Please email us at ships@researchvessels.org if you have pertinent ship information which you would like to share with the scientific community.

Search Ship Specifications
Search Cruise Schedules

Frequently Asked Questions

ACADEMY OF FINLAND
4.1.2006 16

Common use of facilities

- Ocean Facilities Exchange Group
- ESFRI initiatives
 - Baltic Sea research vessel
 - Aurora Borealis

ACADEMY OF FINLAND
Research vessels and research facilities

4.1.2009 19

BONUS PORTAL

SEARCH

NEWS

10.11.2009
BONUS at CER 14-15 November in Brussels

08.11.2009
New BONUS portal opened!

01.11.2009
BONUS Publication 3 is available

More news

BONUS for the future of the Baltic Sea

Environmental problems do not recognize national borders. Problems related to the maritime environment are a prime example.

BONUS has a crucial role in the sustainable management of the Baltic Sea. Baltic Sea research has the best chance of succeeding if it is organized on a cooperative basis, making the best possible use of the funding opportunities, equipment and laboratories available in the area.

The EU funded project BONUS aims at setting up a joint research programme among the Baltic Sea countries. All the participating

How many research vessels operate on the Baltic Sea? Where are the field stations located? Baltic Sea marine research infrastructure in focus on the map!

BONUS Publication Nr. 3 provides an overview of ongoing Baltic Sea research and R&D funding in 2008.

Go to the BONUS Publications

BONUS is preparing conditions for creating a joint Baltic Sea research programme. BONUS-133 Draft

Infrastructure

SEARCH

NEWS

10.11.2009
BONUS at CER 14-15 November in Brussels

08.11.2009
New BONUS portal opened!

01.11.2009
BONUS Publication 3 is available

More news

Baltic Sea research on the map

• Research Institutes and Universities

• Funding opportunities

• Baltic research infrastructure

Marine research infrastructure (MRI)

The map shows marine research infrastructure in the Baltic Sea. Choose a specific category. Moving the mouse over an indicated point gives you an overview of MRI; for detailed information, click a country or a point.

Country names The Baltic Sea drainage basin

Infrastructure

SEARCH

NEWS

10.11.2009
BONUS at CER 14-15 November in Brussels

08.11.2009
New BONUS portal opened!

01.11.2009
BONUS Publication 3 is available

More news

Baltic Sea research on the map

• Research Institutes and Universities

• Funding opportunities

• Baltic research infrastructure

Marine research infrastructure (MRI)

The map shows marine research infrastructure in the Baltic Sea. Choose a specific category. Moving the mouse over an indicated point gives you an overview of MRI; for detailed information, click a country or a point.

Country names The Baltic Sea drainage basin

Helsinki
Åland
Sweden
Denmark
Finland
Estonia
Latvia
Lithuania
Poland
Germany

Infrastructure

SEARCH

NEWS

10.11.2009
BONUS at CER 14-15 November in Brussels

08.11.2009
New BONUS portal opened!

01.11.2009
BONUS Publication 3 is available

More news

Baltic Sea research on the map

• Research Institutes and Universities

• Funding opportunities

• Baltic research infrastructure

Helsinki

Ålands
 Provided by: Finnish Institute of Marine Research (FIMR)

Container
 clean 50 container
 refrigerated ice container

Data Center
 Institute data register
 contact:
 Finnish Institute of Marine Research, P.O.Box 33, FIN-00032 Helsinki, Finland
 http://www.fimr.fi
 laboratory container

Research Ship Schedules & Information

Home - Cruise Schedule Search - Ship Specifications - Update Ship Data - About Ships

Vessel Data and Contact Information for the Aranda

Last Updated - 6/7/2004

Country: Finland
 NODC Code: 34AR
 Call Sign: ORY

Owner: Finnish Institute of Marine Research (FIMR)
 Operator: Finnish Institute of Marine Research (FIMR)

Contact: Ella Lahdes
 Address: Finnish Institute of Marine Research (FIMR)
 P.O. Box 33
 FIN-00031 Helsinki Finland

Telephone: +358-0-613 941
 Fax: +358-0-61394 494
 Email: ella.lahdes@fimr.fi

Year Built: 1989
 Ship URL: [Link to Ship Home Page](#)

Main Activities
 Dimensions
 Capabilities & Instruments
 Range, Speed, Endurance
 Accommodations
 Deck Equipment
 CTD, Seacat
 Coriolis Spectra
 Underwater Vehicles
 Diving Capabilities
 Engineering/Design
 Navigation & Communications
 Acoustics & Sonar
 Winches, Cranes, etc.
 CRRES
 Construction