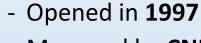


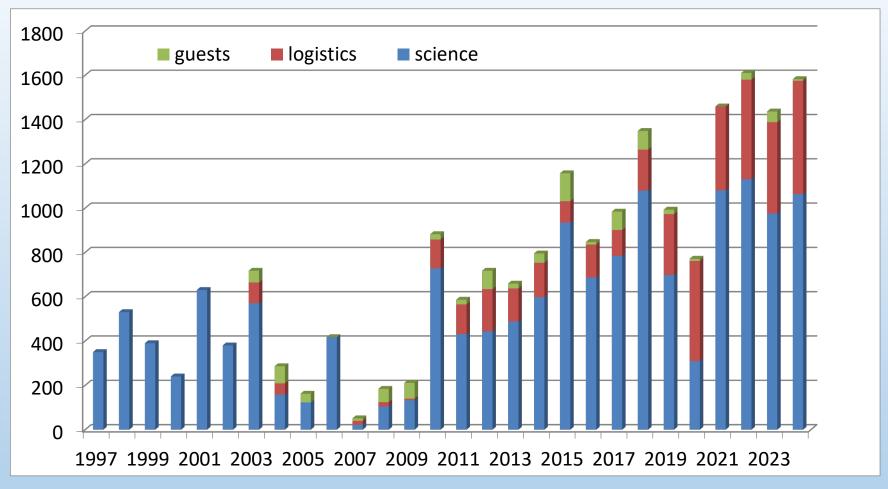
Arctic Station "Dirigibile Italia", Ny-Ålesund Research Station (Svalbard)





- Managed by CNR-ISP, but hosts researchers from other institutions and universities
- Surface 330 m² with sleeping rooms, offices and laboratories
- Can host up to 7 researchers
- Since 2018 runs all year round
- Access through a national call and a peer-review process.
- Participates to
 INTERACT/SIOS/POLARIN/EMBRC
 access programs

Man-days at Dirigibile Italia



33 projects submitted for 2024, **including access projects**. For 2024 we expect a similar number of attendances as in 2023.

Overview of planned vessels/icebreaker capacity, with updates on status and date of availability of the vessels/icebreakers

RV LAURA BASSI (OGS)

Length overall: 80 m Beam, overall: 17.00 m

Draft: 6.85 m Year Built: 1995

Gross tonnage: 4028 T Engine Power: 2 x 2650 kW Tunnel thrusters: 4 x 608 kW Azimuth thruster. 1 x 811 kW

DP 2

Maximum speed: 17 knots Cruising Speed: 12 knots Survey Speed: 8 knots Endurance: 60 days Scientific Personnel.

Crew: 22 people

Cabin: 37

Special Purpose Sh Icebreaker ICE 05

3 Cargo hold: 3.000 m³

Heli deck



Length overall: 82.90 m erall: 13.00 m gn): 4.80 m

Jnnage: 2024 T

agine Power: 2 x 2941 kW Bow Thruster: 1 x 400 kW

DP zero

Maximum speed: 17 knots Cruising Speed: 11 knots Survey Speed: 8 knots

Endurance: 36 days

Scientific Personnel: 24 people

Crew: 18 people

Cabin: 23

Special Purpose Ship

Ice class 1B, not yet PC certified

Cargo deck



Information on ICARP activities/contributions

12 Italian experts in 5 topic areas

Topic Area 1: The Role of the Arctic in the Global System

Tommaso Tesi (paleoclimate/permafrost, CNR), Giovanni Muscari (mesosphere/stratosphere, INGV), Stefania Gilardoni (aerosol/BC, CNR)

Topic Area 2: Observing, Reconstructing, and Predicting Future Climate Dynamics and Ecosystem Responses

Maurizio Azzaro and Laura Ghigliotti (marine biology, CNR), Manuel Bensi (oceanography OGS), Vito Vitale (atmosphere, CNR), Giorgio Di Sarra (atmosphere, ENEA)

Topic Area 3: Understanding the Vulnerability and Resilience of Arctic Environments and Societies and Supporting Sustainable Development

Nicoletta Ademollo (ecosystems, vulnerability and resilience, CNR), Massimo Santarelli (green energies, hydrogen, POLITO)

Topic Area 4: Scientific cooperation and diplomacy

Marco Volpe (Asian countries and Arctic, Italian PhD student in Finland)

Topic Area 6: Preparing present and future generations through Education, Outreach, Communication, Capacity Building, and Networking

Maria Silvia Giamberini (hydrology/critical zones, CNR)

Information on ICARP activities/contributions

CNR had a call for ACTIVITIES TO SUPPORT PHASE 2 OF THE FOURTH INTERNATIONAL CONFERENCE ON ARCTIC RESEARCH PLANNING — ICARP IV

Lucilla ALFONSI (INGV, <u>lucilla.alfonsi@ingv.it</u>): Cross-cutting activities for **geosciences**, atmospheric physics and space sciences

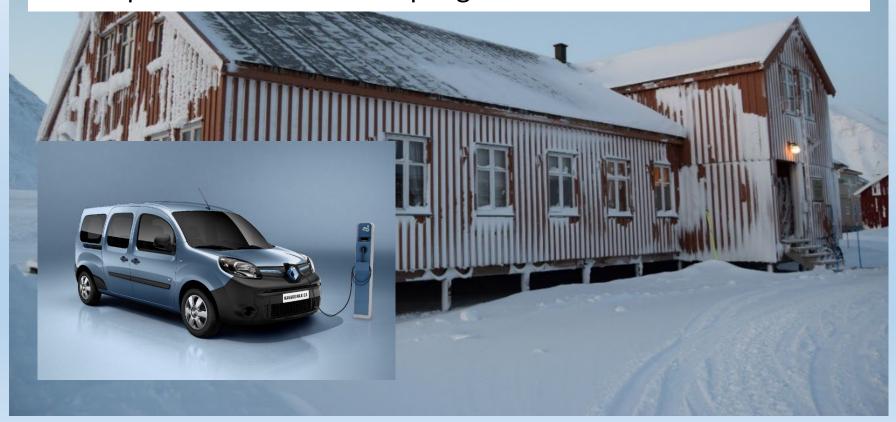
Angelina LO GIUDICE, Maurizio AZZARO (CNR-ISP, <u>angelina.logiudice@cnr.it</u>, maurizio.azzaro@cnr.it): **Microplastic emergency** and the associated plastisphere in freshwater habitats of the Arctic

Andrea SPOLAOR (CNR-ISP, <u>andrea.spolaor@cnr.it</u>): The effects of **winter warm spells** on the ecosystem and the socio-economic organization of Arctic communities

Update on modernizing infrastructures in terms of green transitions

From **2023** the station has an **electric car** for moving people and goods in and around Ny-Ålesund:

- higher efficiency respect to a conventional engine
- less pollution near the sampling sites

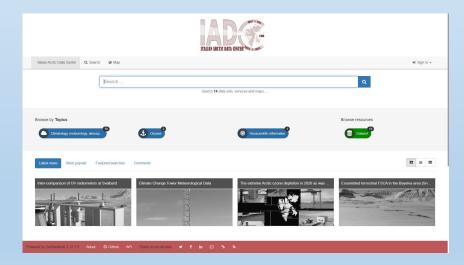




Our data are available at the **Italian Arctic Data Center**

https://iadc.cnr.it

Metadata via Geonetwork



Data via ERDDAP

