



19th Conference of the IHO Hydrographic Commission on Antarctica

National Report of Peru

Agenda item 07.2A

HCA-19, Venice, Italy (hybrid), 15 – 18 April 2024



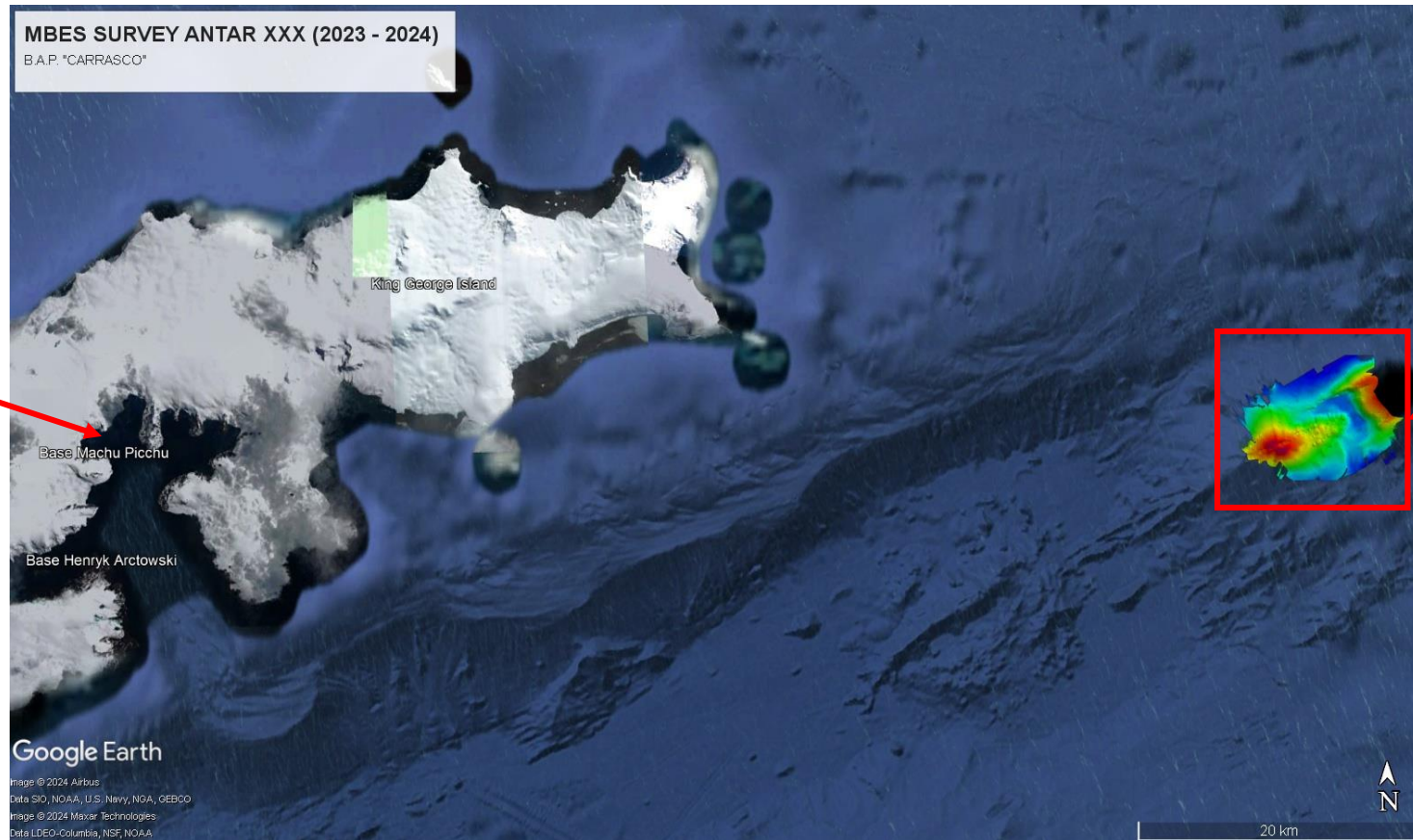
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Surveys and charting progress in Antarctica since HCA-18 (May 2022)

International Hydrographic Organization

- Surveyed area with EM-122, according to the research projects of the XXX Antarctic Campaign done by the Peruvian oceanographic vessel:

Peruvian Antarctic Research Base.



Surveyed area

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Relations with Other Organizations

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- **Hydrographic Data Received From Other Organizations**
NTR
- **Hydrographic Data Provided To Other Primary Charting Authorities and/or GEBCO**
NTR



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Relations with Other Organizations Scientific and Polar Institutes

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- Scientific and Polar institutes: Several institutions are involved in Antarctic campaigns (Directorate of Hydrography and Navigation, Peruvian Sea Institute, Mineral and geologic Institute, Peruvian Institute of Nuclear Energy, National Service of Natural Protected Areas, Private and State Universities). Also, foreign research institutes like Chilean institutes, and others co-work in Antarctic projects.
- Cruise vessels: BAP Carrasco is one of the most moderns oceanographic research vessels. It has completed successfully the XXX Antarctic Peruvian expedition.



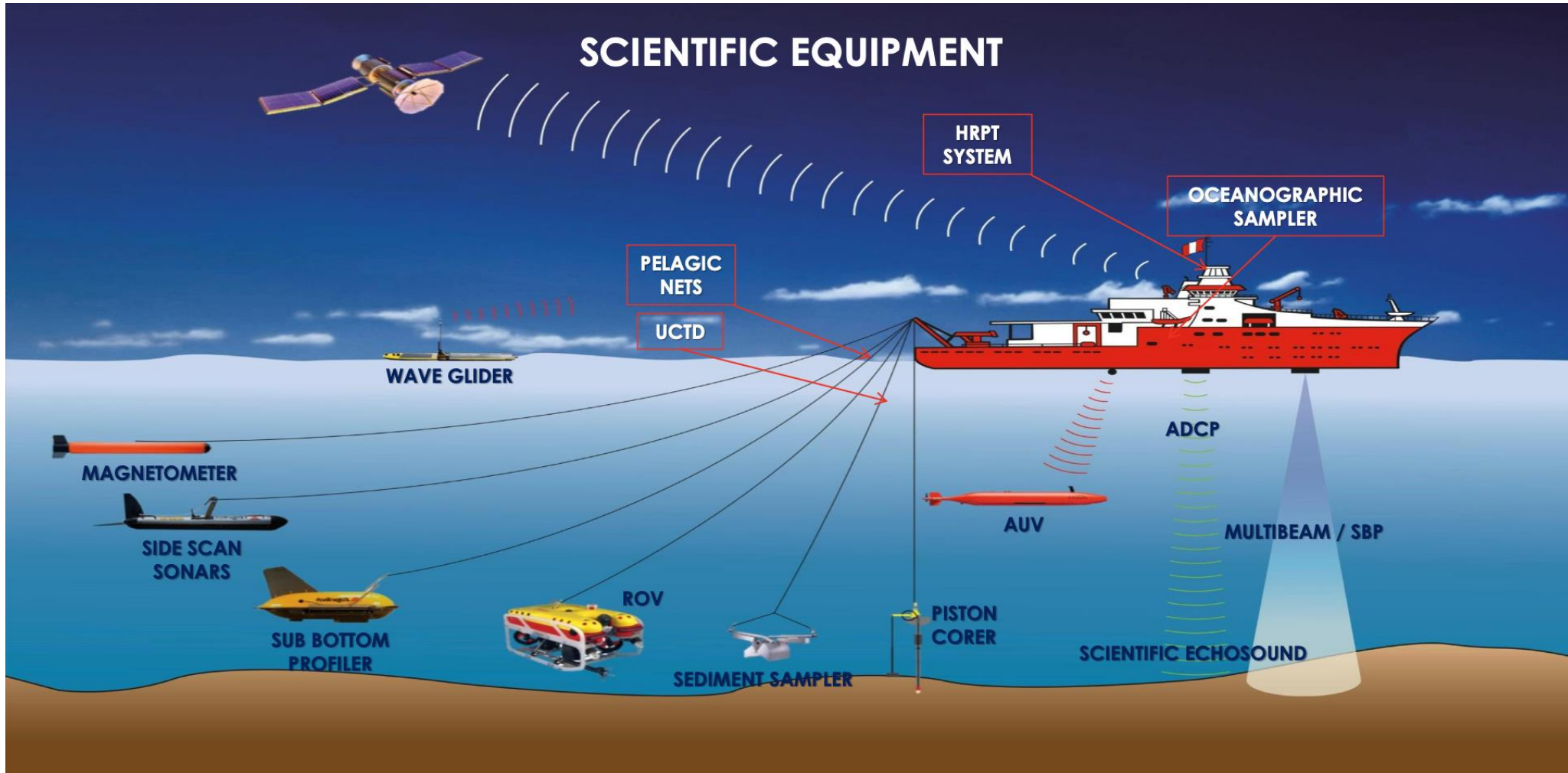


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Relations with Other Organizations

Cruise vessels – B.A.P. “Carrasco”

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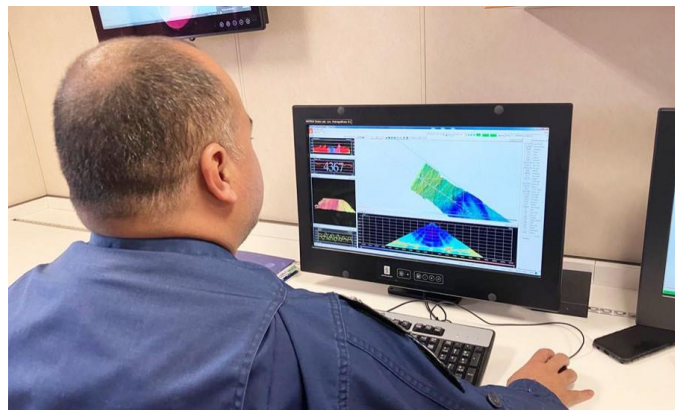
Relations with Other Organizations

Scientific projects

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Organization

SCIENTIFIC OCEANOGRAPHIC CRUISE

- ✓ 09 – 25 JAN
- ✓ 17 DAYS
- ✓ 55 STATIONS
- ✓ EQUIPMENT:
 - EK-80
 - ADCP
 - ROUSSETTE CTDO
 - RED WP-2
 - RED BONGO
 - RED IKMT



SCIENTIFIC GEOLOGIC CRUISE

- ✓ 09 – 14 FEB
- ✓ 06 DAYS
- ✓ 23 STATIONS
- ✓ EQUIPMENT:
 - ADCP
 - ROUSSETTE CTDO
 - EM – 122
 - ROV
 - SBP
 - VAN VEEN DREDGE

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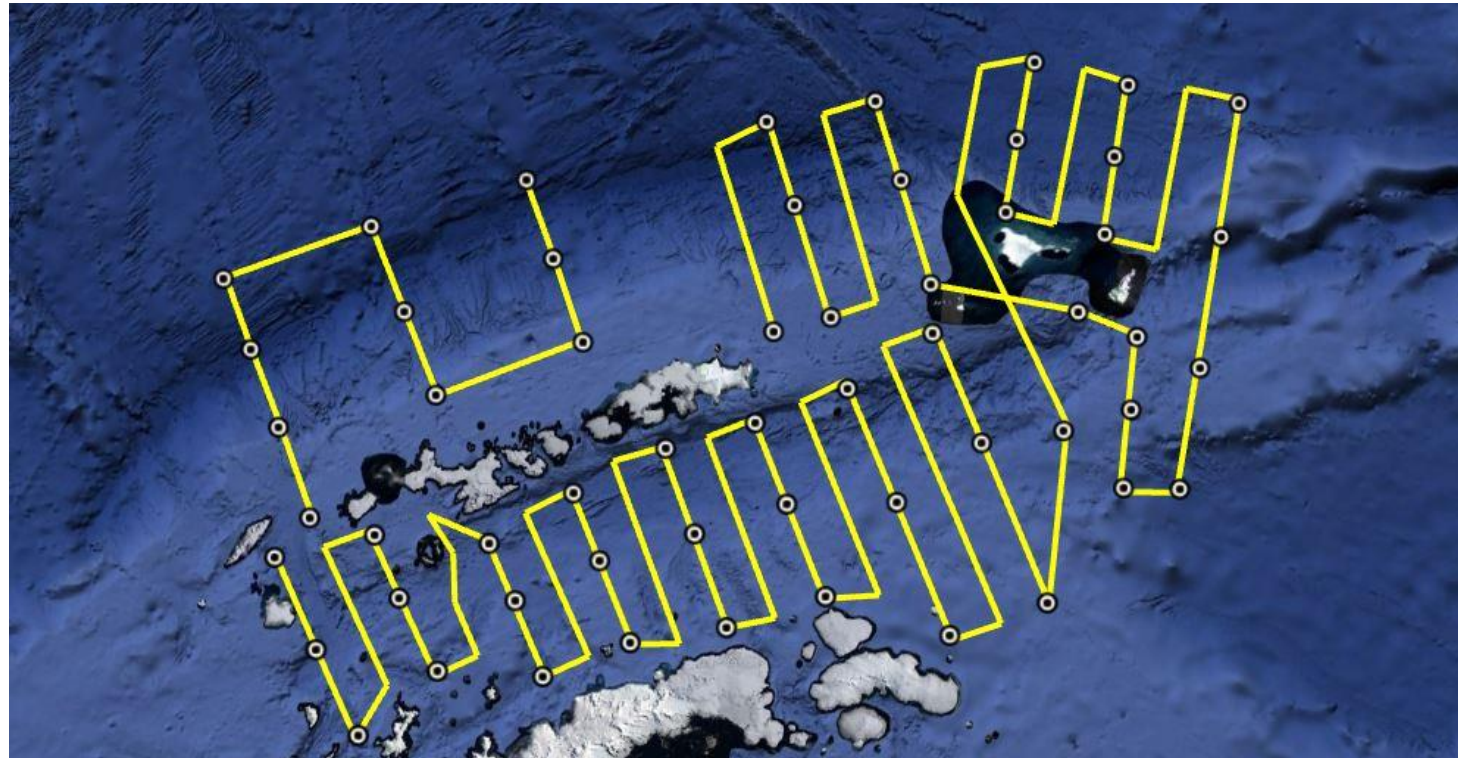


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Relations with Other Organizations

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Study of marine dynamics around the South Shetland Islands and its connection to the El Niño Southern Oscillation (ENSO)



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Contribution and dispersion of trace elements from hydrothermal emanations in the Bransfield Strait, implications for the primary productivity of the Southern Ocean



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Other projects:

- Study of the pelagic ecosystem in the Bransfield Strait and surroundings of the Piloto Pardo Islands.
- Euphasid larvae monitoring (IAA)
- Study of the environment in Mackellar Inlet, Admiralty Bay and Bransfield Strait.
- Characterization of the southern glacial ecosystem of the Andes and Antarctica using radioactive tritium and radon tracers for the assessment of climate change.
- Evaluation of the presence of microplastics in the coastal ecosystem of the Knosko glacier and monitoring of the communities of birds and marine mammals on the glacier beach and in surrounding areas.
- Characterization of trace elements present in lichens and transboundary atmospheric aerosols in ECAMP, Admiralty Bay and King George Island.
- Polychaetas as biological indicators of trophic interactions of macrobenthos in Mackellar Inlet.
- ECAMP Impact Area Site Study.
- Acoustic survey of Antarctic krill (*Euphrasia superba*) – INACH.

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Relations with Other Organizations

Seabed 2030

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The 5th Regional Mapping Community hybrid meeting for the South and West Pacific was hosted by the Peruvian Hydrographic Office between 12-14 July 2023. Meeting objectives were:

- Review the progress with Seabed 2030 project.
- Discuss methods and protocols of data sharing and management.
- Identify regional priority areas and identify upcoming mapping expeditions.
- Open data download and use workshop.



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Other matters of relevance to HCA, particular issues that may require HCA consideration and/or may need to be reported to IRCC

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Recommendations, Actions to be considered by HCA:

- Antarctic S-100 products and Electronic Navigational Data Services (ENDS) in the region are intended to start production in 2025 with S-101 ENC's.
- Update the Peruvian Antarctic cartographic products.
- Collaborate and publish bathymetric data for science and research institutions.
- New deliverables as geological charts, topobathymetric charts, etc.