Passive Acoustic Monitoring Gliders

Rationale for Passive Acoustic Monitoring (PAM)

Relevance of the glider platform

PAM glider applications

PAM Task Team

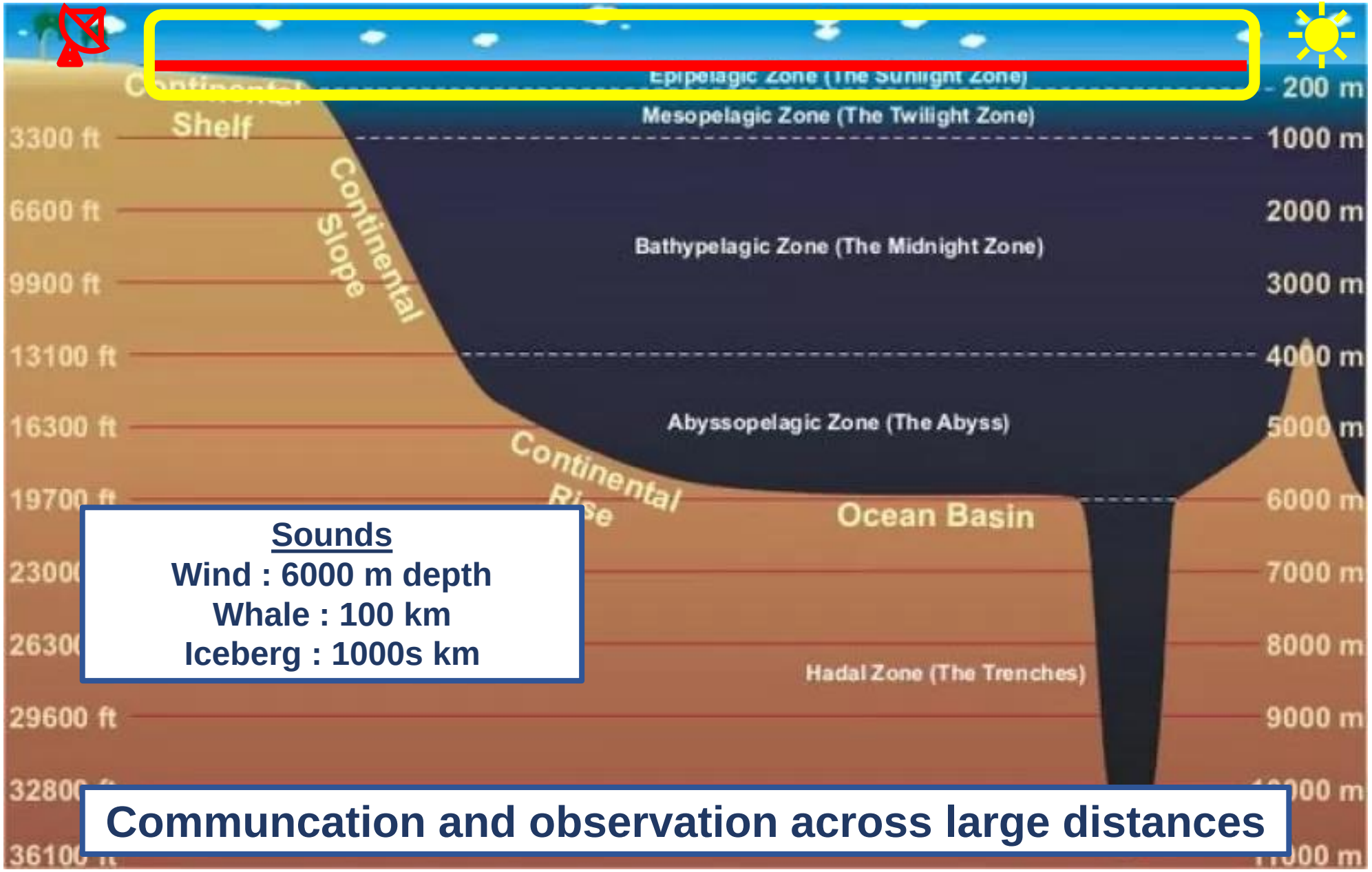
Members

Objectives

Reporting

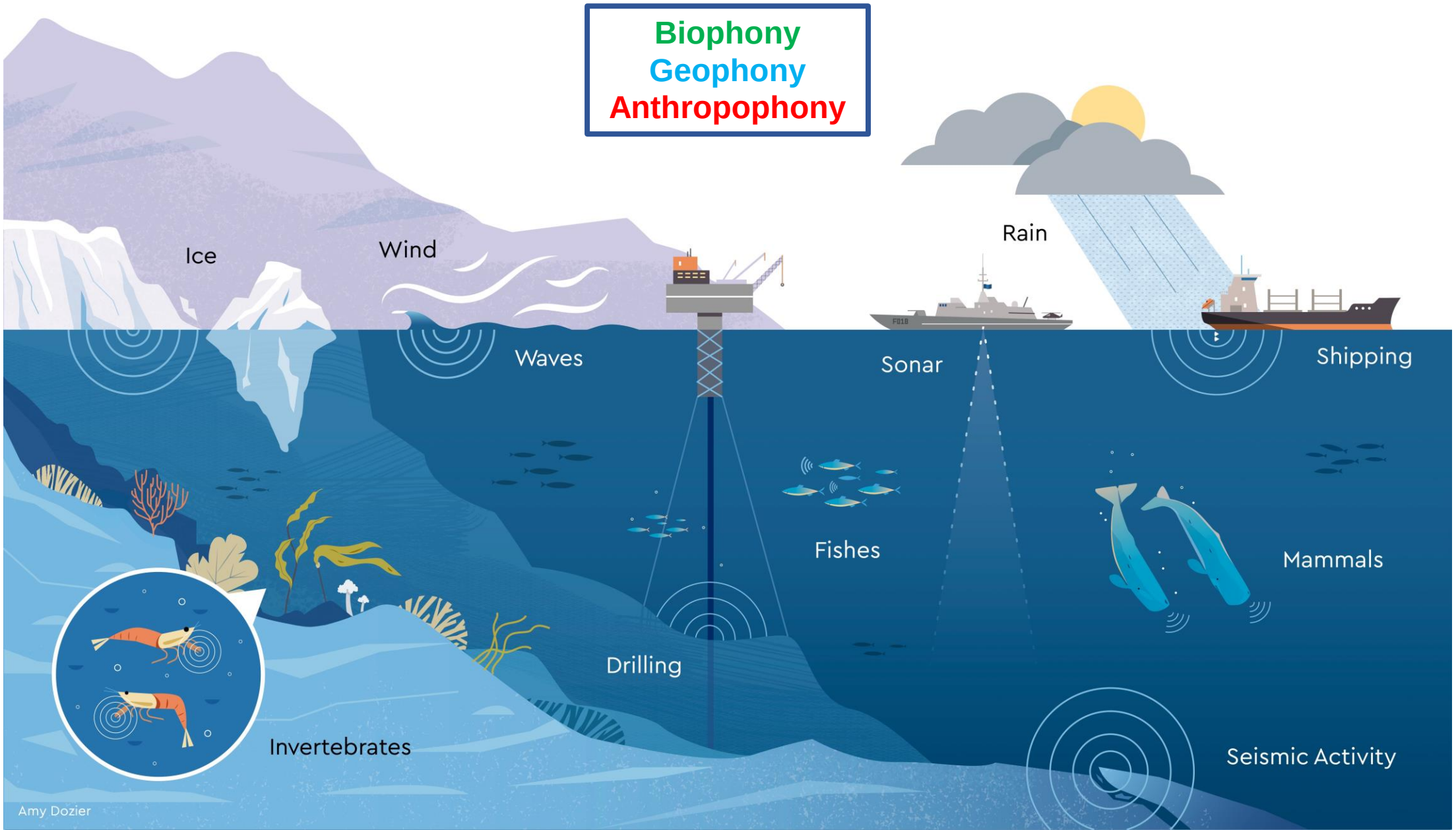
OceanGliders Steering Team meeting – 30st Jan 2024

Propagation



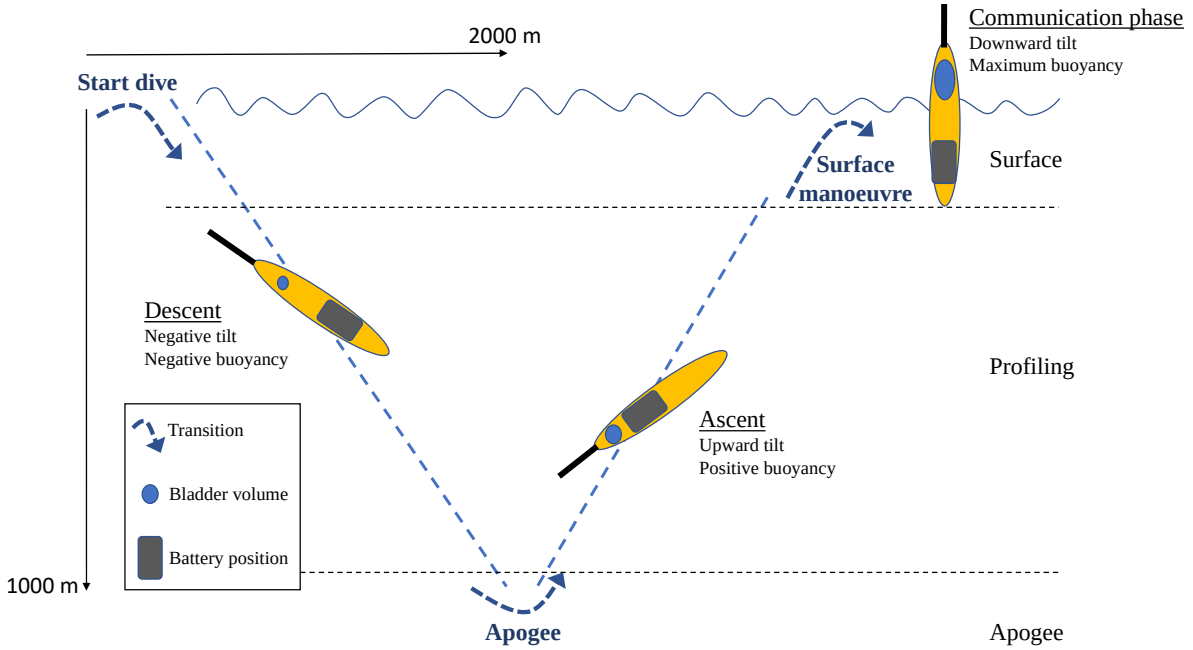
2

Oceanic soundscape



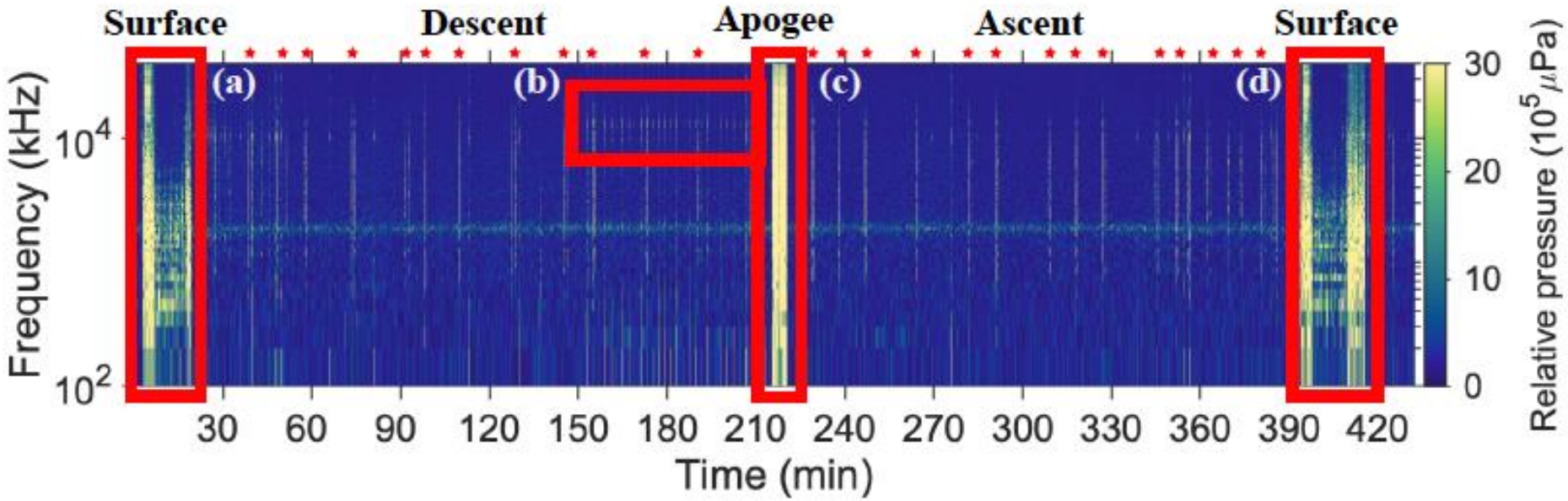
3

Gliders for PAM

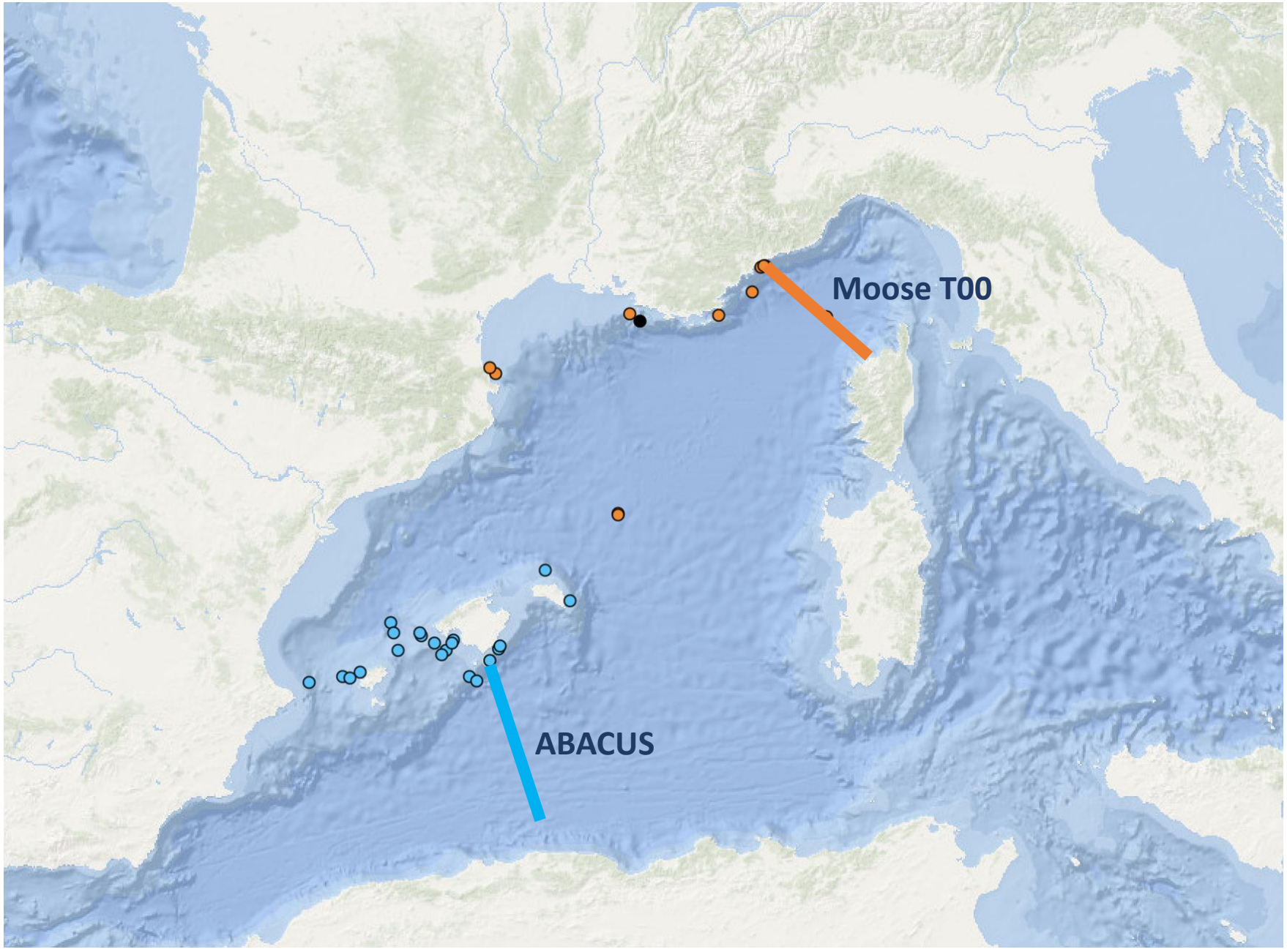


No propulsion noise

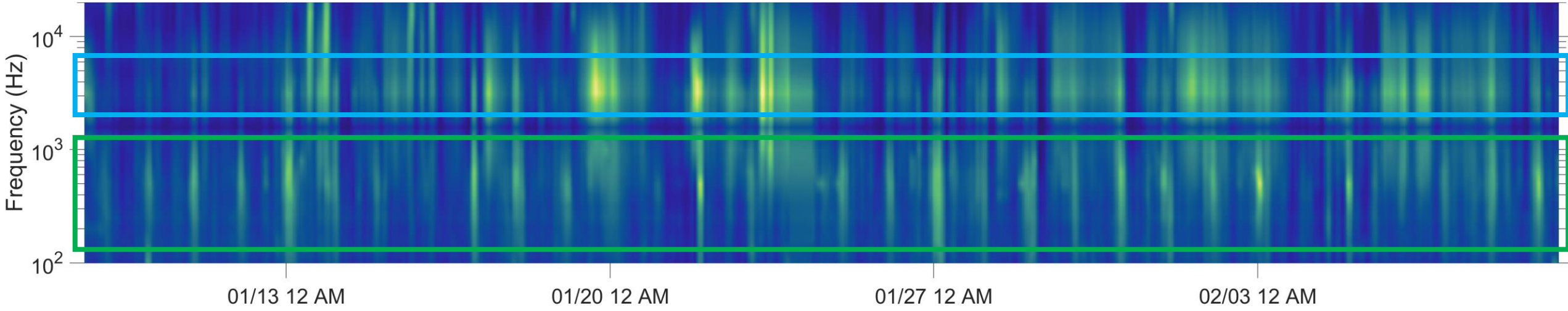
Limited flow noise



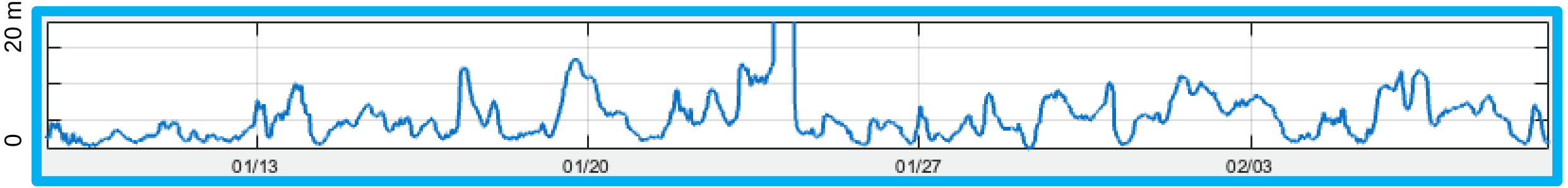
Repeated PAM glider observation



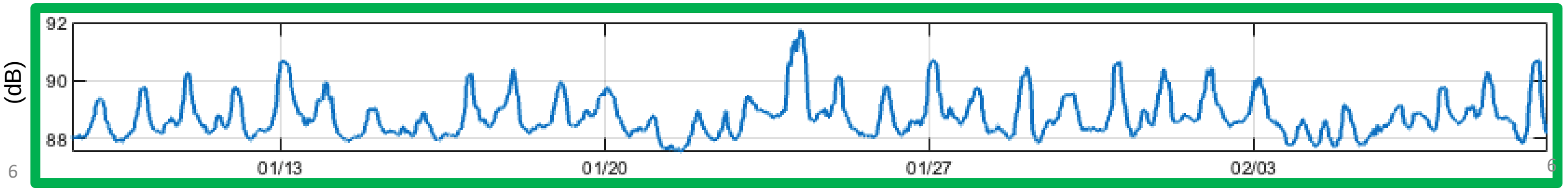
Background noise – long term monitoring



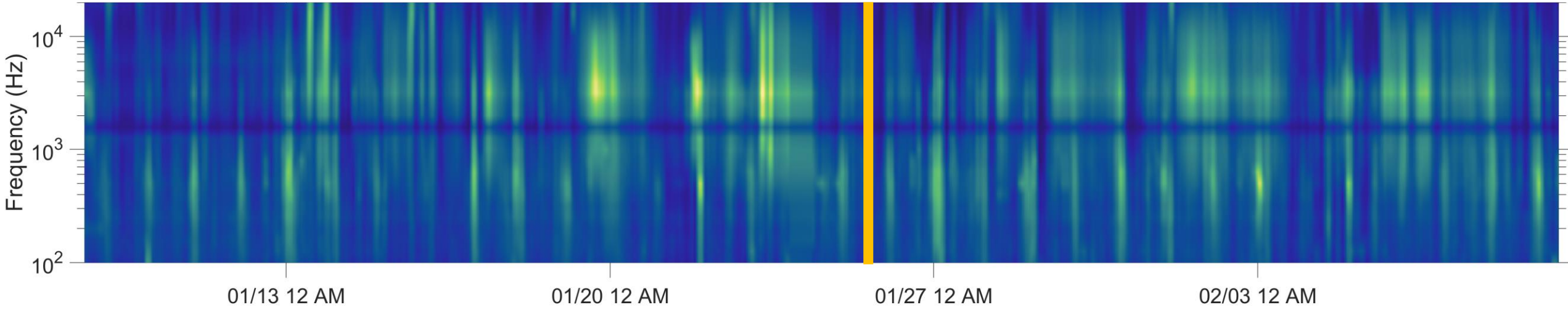
Wind speed

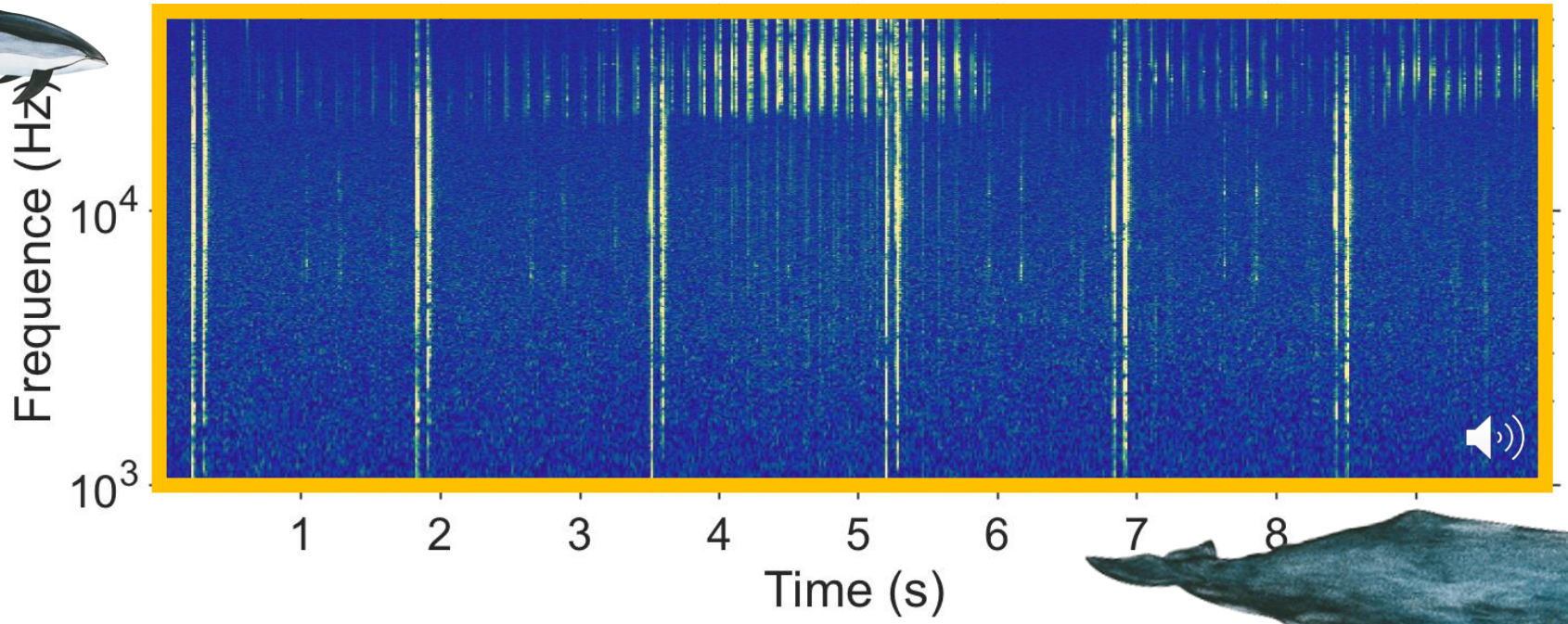


Nighttime biological chorus



Detection / classification





7

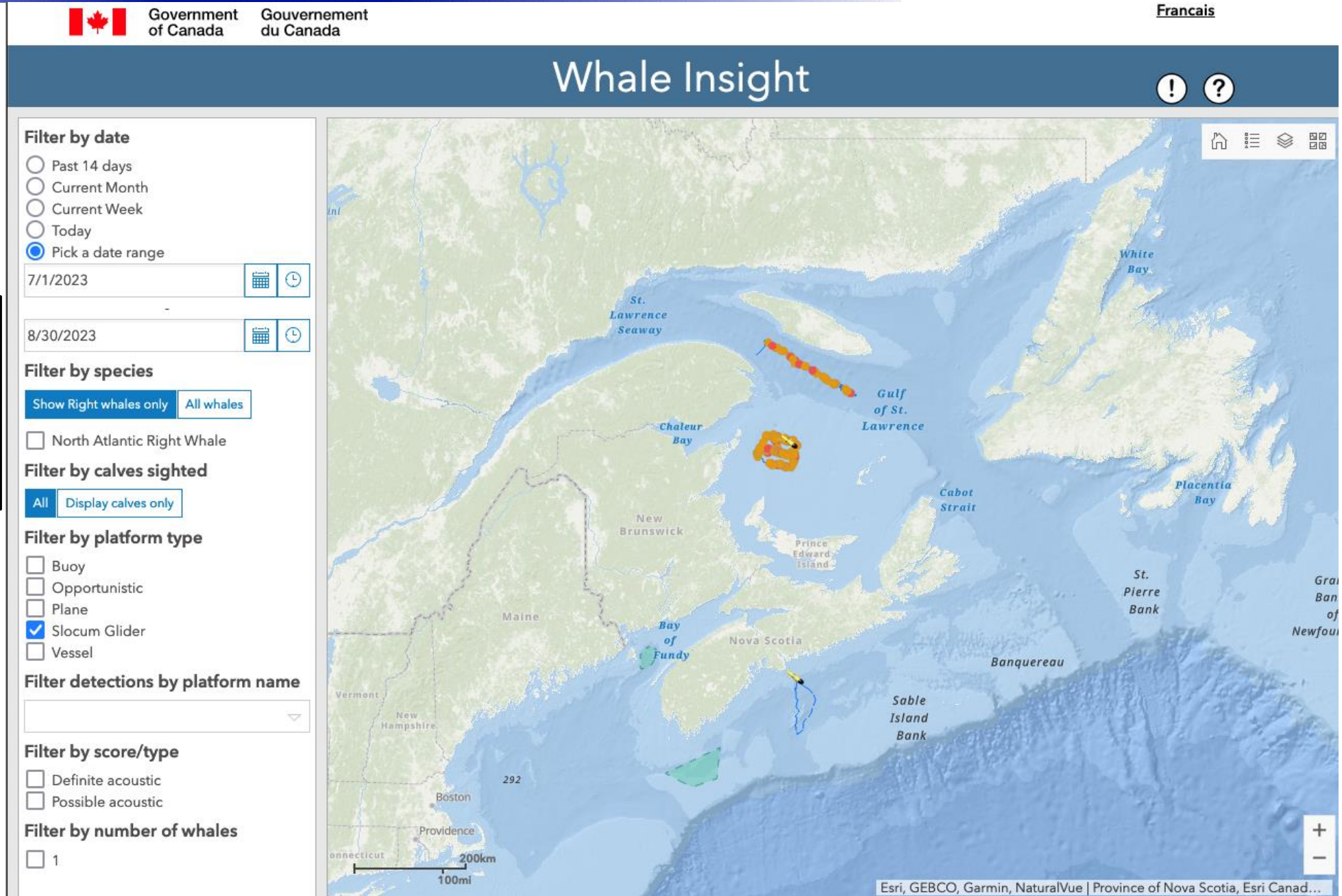
North Atlantic Right Whale program

DALHOUSIE UNIVERSITY

UNB EST. 1785 UNIVERSITY OF NEW BRUNSWICK

Real time monitoring

Dynamic management
Fisheries
Traffic



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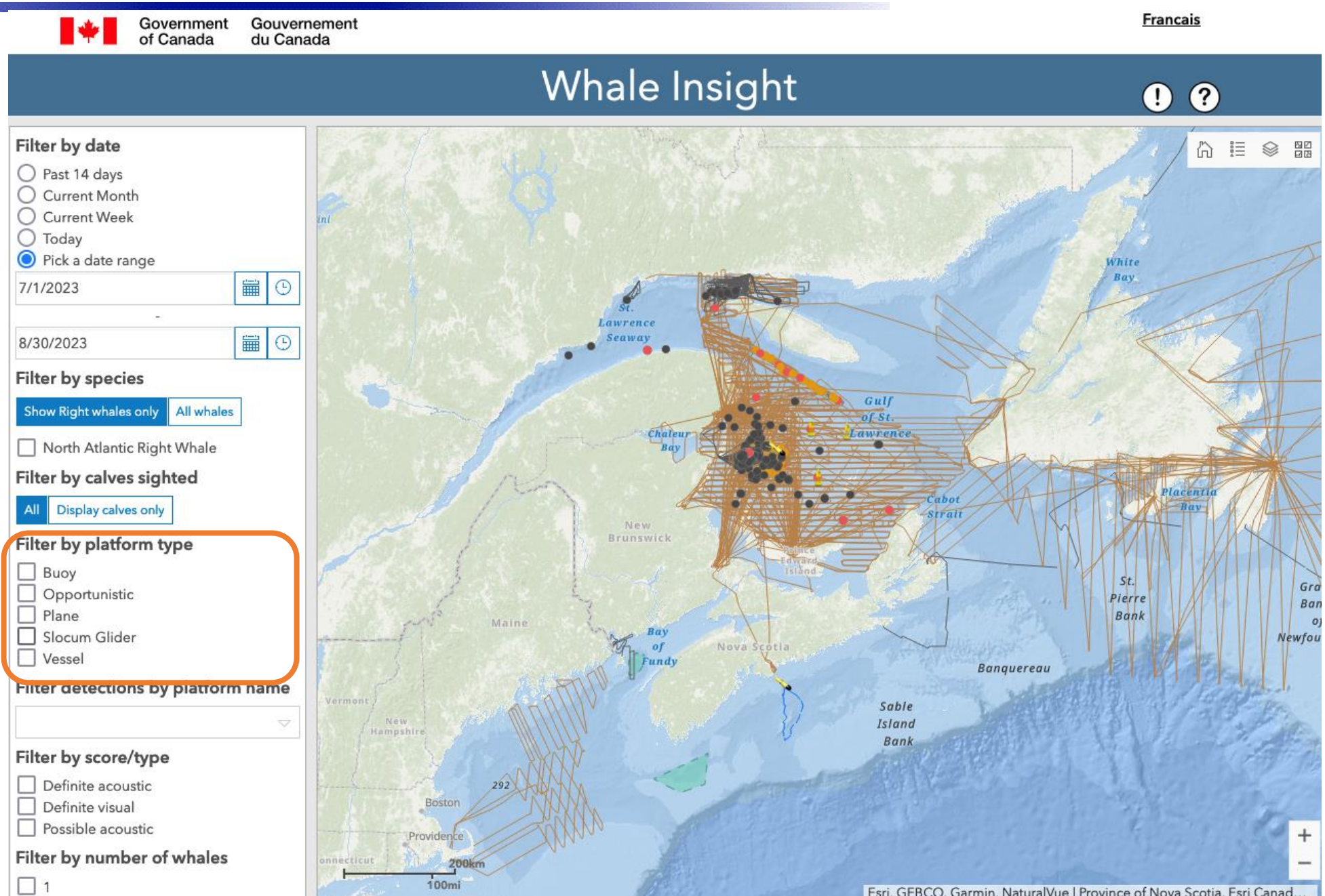

20 Task Team members

***Chair* – Pierre Cauchy**, Institut des Sciences de la Mer de Rimouski, Canada
***Co-chair* – Denise Risch**, Scottish Association for Marine Science, UK
Olivier Adam, Université Paris Saclay, France
Sofia Aniceto, Equinor, Norway
Mark Baumgartner, Woods-Hole Oceanographic Institution, USA
Laurent Beguery, Alseamar, France
Jorge Cabrera, Plataforma Oceanica de Canarias, Spain
Ivia Closset, Finnish Meteorological Institute, Finland
Kim Davies, University of New Brunswick, Canada
Rémi Emmetiere, Alseamar, France
Selene Fregosi, Ocean Associates Inc/NOAA, USA
William Halliday, Wildlife Conservation Society, Canada
Clara Hulburt, Teledyne, USA
Kate Indeck, University of New Brunswick, Canada
Katie Kowarski, Jasco Applied Sciences, USA
Albert Miralles, SOCIB, Spain
John Moloney, Jasco Applied Sciences, USA
Pablo Quiroga, Alseamar, France
Manuel Rubio, SOCIB, Spain
Kimmo Tikka, Finnish Meteorological Institute, Finland

Long-term objectives

Improve maturity / readiness

- Good practices guide
- Standard data format
- Shared tools and methods for data processing and analysis
- Data management / sharing

Promote sustained / visible / impactful PAM glider observation

- Maintain and develop existing PAM glider efforts
- Add PAM to existing glider observatories
- Integrate PAM glider data to ambient noise monitoring programs
- Integrate PAM glider data to marine population monitoring programs

Short-term goals

Build the PAM glider community

- Ocean Sciences Meeting – Feb 2024
- International Underwater Glider Conference – June 2024

Identify sub-tasks and leaders

- Whale gliders
- Noise gliders
- Good practices
- Technology development
- …

Timeline

May 2023 – Task team proposal
Oct 2023 – Task team approved
29 Nov 2023 – Kick-off meeting (12 participants)
- **Mailing list (18)**
- **Terms of Reference document**

Next meeting in May
More from the PAM task team during IUGC

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