

POTENTIAL FIELD POOL EQUIPMENT (PFPE* AND MISO^) 2023 ACTIVITIES REPORT

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Big Thanks to: Nigel Brady & Daniel Aliod (DgS) and Bernie Coakley (UAF)



GRAVITY DATA ACQUISITION BY
UNOLS ARF

WHY IMPORTANT?

PFPE Missions:

Help UNOLS ARF operating potential field equipment.

Help UNOLS ARF obtaining science-grade (i.e. as highest data quality as possible) potential field data.

++Gravity data from your vessel are *knowledge*, and the knowledge is our *power* to address 21st century Earth and ocean sciences, national security, resource and hazard management, etc.

Potential Fields Pool Equipment (PFPE) Services



Gravimetry

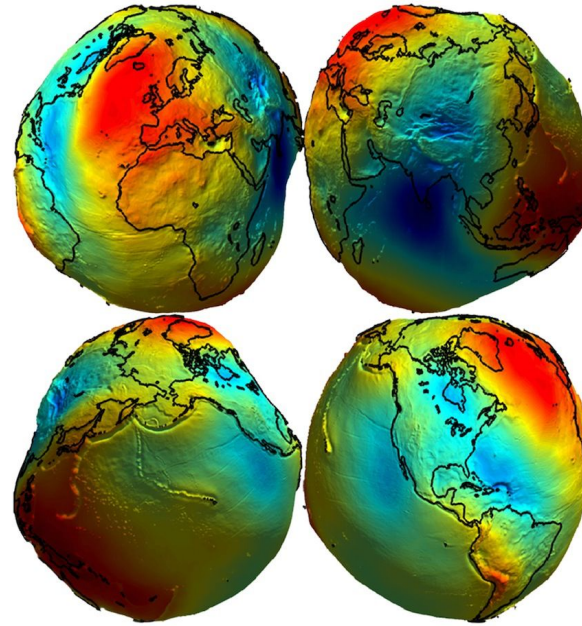
PFPE supports users needs to acquire gravity data at sea



Magnetometry

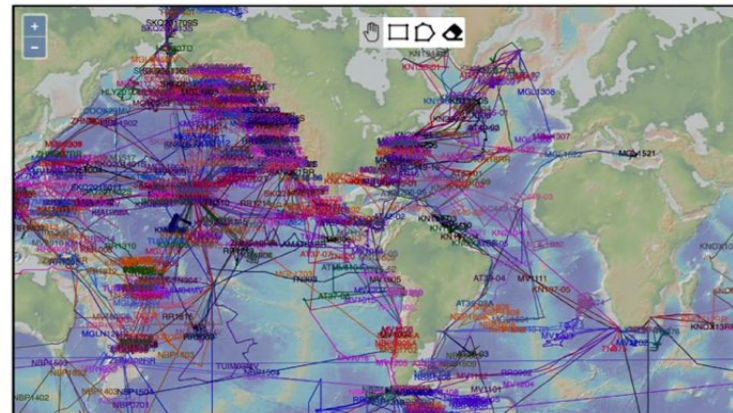
PFPE supports users needs to acquire magnetic data at sea.

True Earth Topography modeling



(National Geospatial Agency)

GRAVITY DATA FROM
UNOLS ARF
MULTI-AGENCIES MULTI-INSTITUTIONS
COLLABORATION



<https://www.rvdata.us/>

R2R ROLLING DECK TO REPOSITORY

SEARCH

Device Type: Gravimeter x

Device Type: Gravimeter

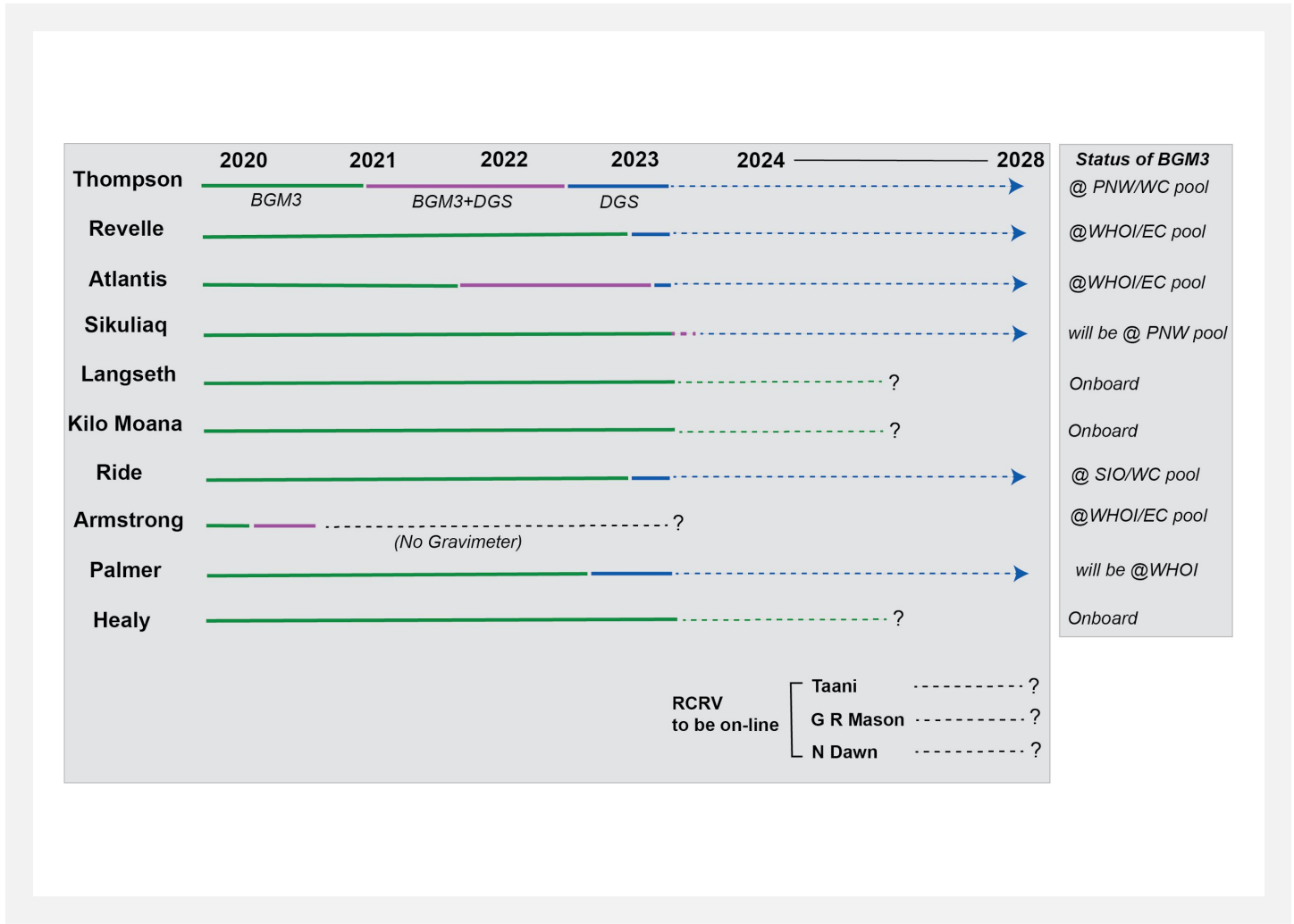
SEARCH Clear Search Filters RESET

842 Results Download Table

SHOW ON MAP	CRUISE	VESSEL	DEVICE	DOI	RAW DATA	R2R PRODUCT
<input type="checkbox"/>	AR10	Armstrong	Gravimeter Bell BGM-3	10.7284/125838		Gravity
<input type="checkbox"/>	AR11	Armstrong	Gravimeter Bell BGM-3	10.7284/125839		Gravity
<input type="checkbox"/>	AR12	Armstrong	Gravimeter Bell BGM-3	10.7284/125840		Gravity

2023-PFPE ACTIVITIES AND UPDATES

More on the new DgS meter practices in collaboration with Maya Thompson et al. (SIO) during the PFPE Breakout Session this PM!



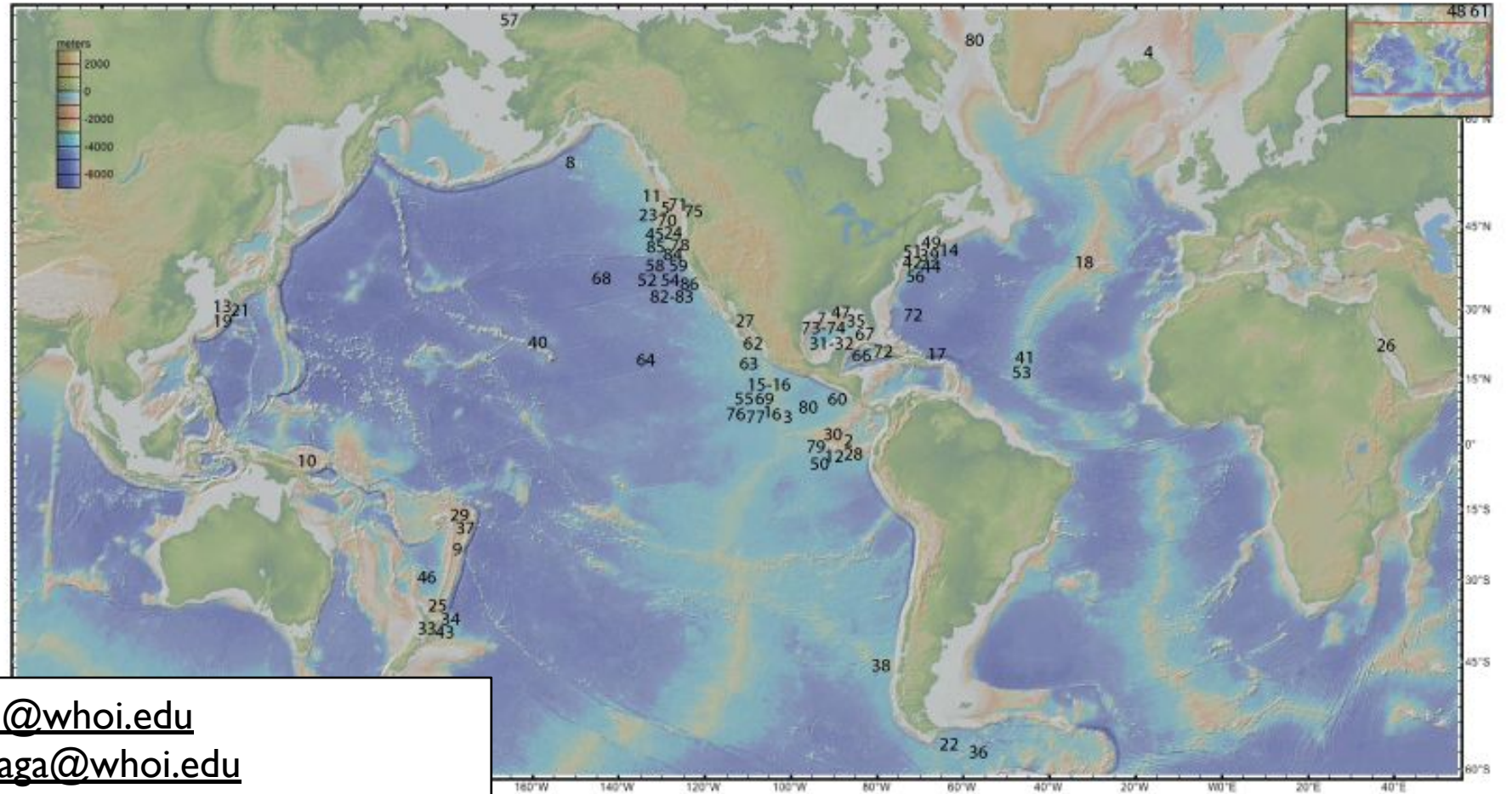
MISO

(“Multidisciplinary Instrumentation in Support of oceanography”)

Deep-sea Imaging, Sampling and Data Acquisition Tools

Facility to Support Oceanographic Field Studies

MISO Facility Supported Cruises - 2002-2023



85 field programs
supported over
the past 22 years

11 during
2022-2023!

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WHOI-SSSG-MISO Joint field support with OSU-MARSSAM
for multicoring, box coring and dredging.
MISO Fulfills science seafloor visual ground-truthing with WHOI's
long-standing deep-sea imaging expertise.

