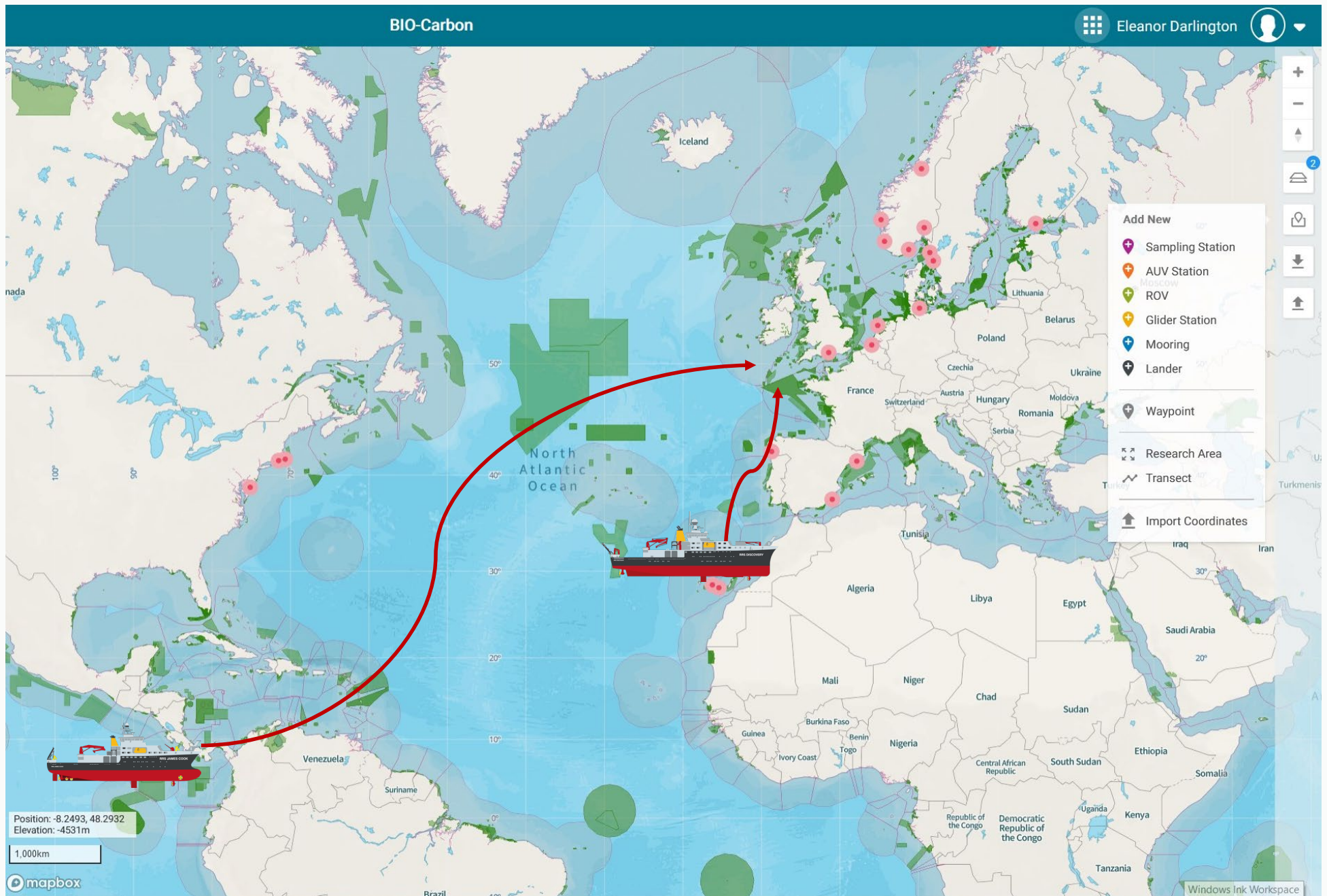




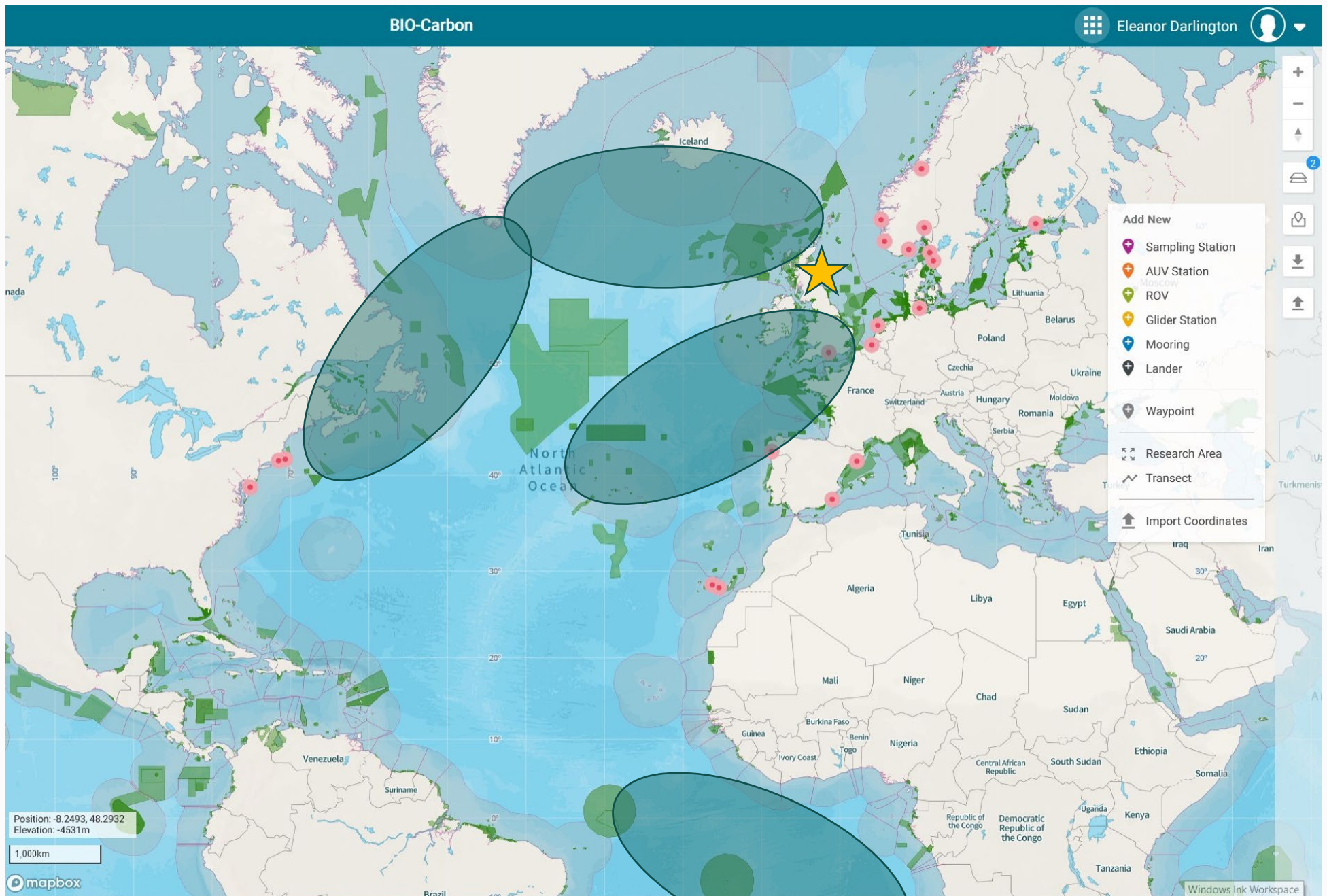
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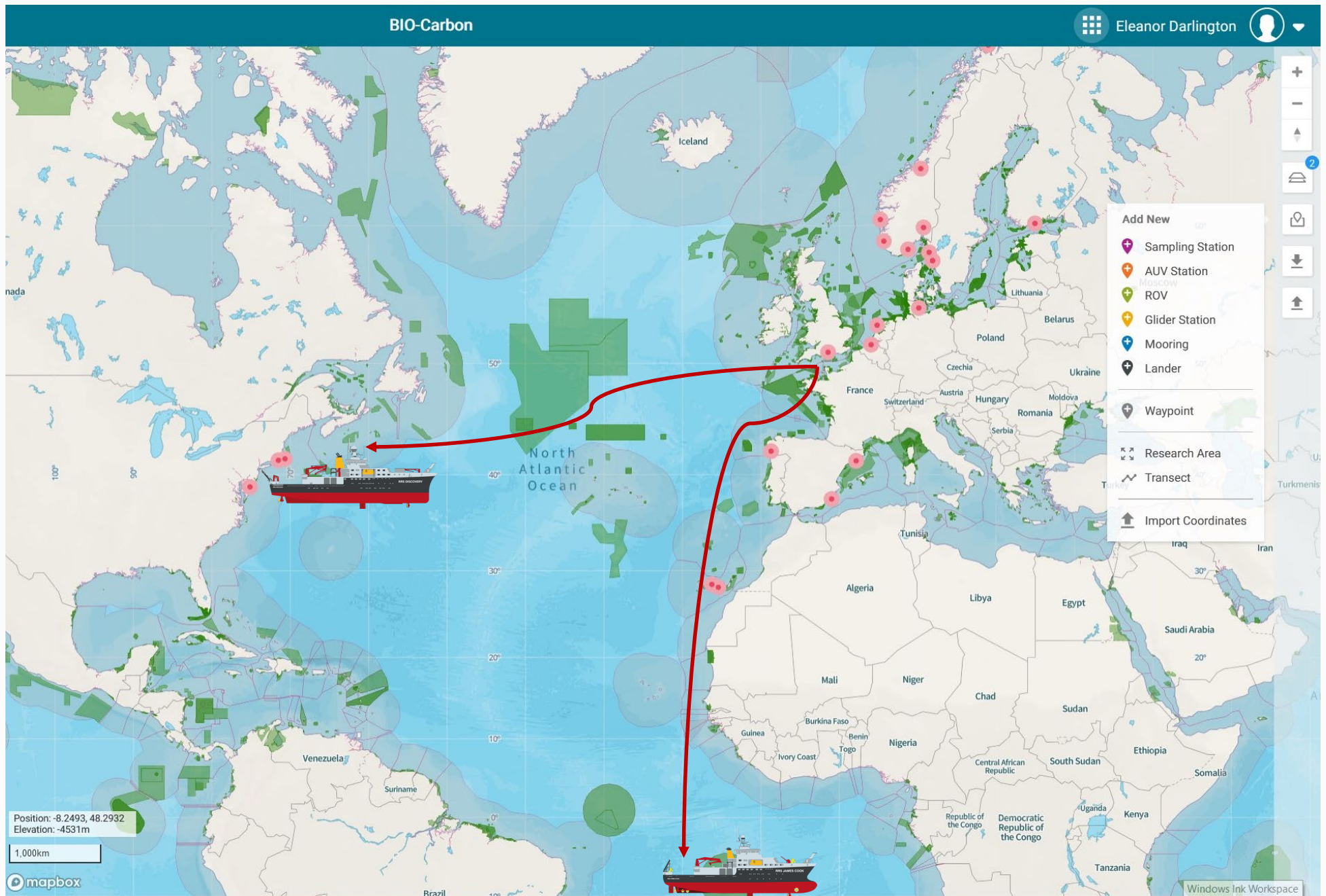
BIO-Carbon Ship Based Expeditions 2024

SPRING



COMMITMENTS





EQUIPMENT



- Check the BIO-Carbon website for what is already requested from the NMEP
- We cannot support:
 - Mooring design, fabrication and deployment
 - Towed bodies
 - ROV's
- Autonomy
 - Autonomy can be deployed and recovered from NOC operated vessels
 - Standard sensor fit is included in the NERC superstructure cost
 - If NMF don't have the sensors, or it's not a standard fit, this needs to be accounted for in the science budget
 - Separate NZOC budget for additional autonomy for shore launched work

CONSTRAINTS

- NERC vessels available: Discovery and James Cook
- Barter vessels are not an option, due to timeframe of delivery
- Third Party Ships
 - Needs confirmed vessel time by July 2023
 - Cannot request SE-NMEP equipment / personnel to support
 - Autonomy?
 - Why? Scheduling constraints
- Two N. Atlantic expeditions
 - Spring = April / May
 - Autumn = Aug / Sept / Oct, depending on vessel and other funded activity
- Max duration 39 days per expedition
 - Why? Based on endurance of Discovery
- £1M available for NERC Superstructure Cost of vessels and NMEP/NMF kit



PROGRAMME CONSTRUCTION

- Integrated NERC Marine Facilities Programme
 - Three vessels, autonomy and NMEP
 - Outside of normal planning cycle
- Technicians, logistics, locations, seasonality...
- Efficient programming
 - Will require detailed expedition plans in the MFP
 - Carbon budget for the 2024 / 25 programme
- Cruise Programme Executive Board October 2023
 - Board reviews programme options
 - Ship operators are then instructed as to which is the preferred
 - Marine Programme on MFP website
 - Detailed planning starts with NMF project managers





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