



Lisbon

May 2023


KES Kraken

with Educational Passages and the National Oceanography Centre



This project has received funding from the European Union's Interreg Atlantic Area programme under the grant EAPA_165/2016

KES KRAKEN MINIBOAT

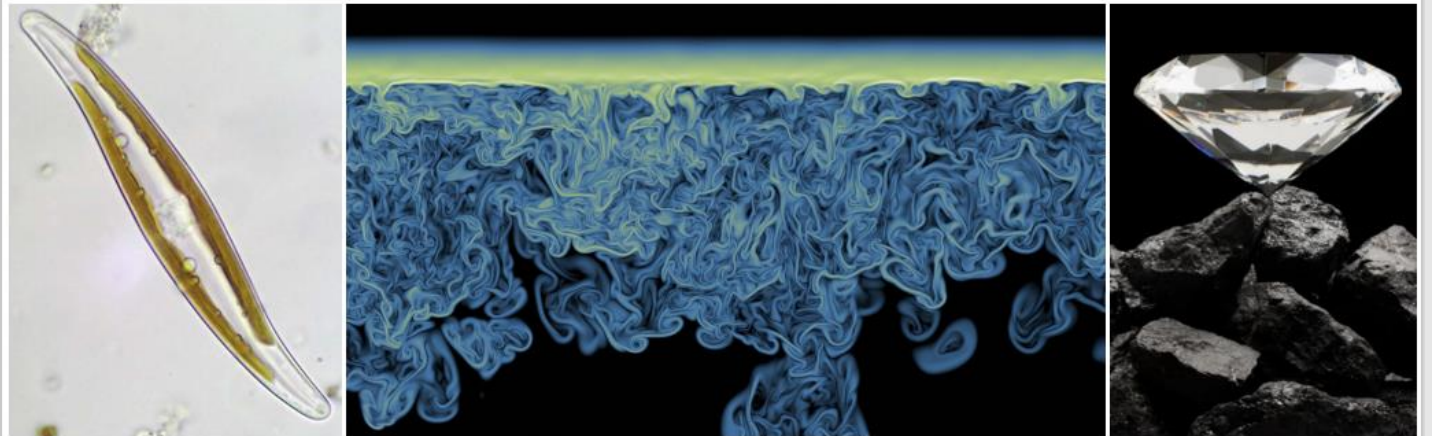


Dr. Cael gave a talk at
the KES science festival
22nd June 2021



King Edward VI (KES) school in Southampton

an overview of ocean science



b. b. cael



National
Oceanography
Centre

Promoted ocean science/literacy at KES, with a miniboat demo at the end. Two groups of ~120 kids, ages 12 and 14. After the talk a chance to sign up for NOC/iFADO miniboat-building in the fall, partnered with a French iFADO partner school



From September 2021 students at the KES built an [Educational Passages](#) miniboat, which they named 'KES KRAKEN'.

Other NOC scientists visited the school - students had the chance to learn about aspects of marine science like ocean currents, microplastics, marine autonomous robotic systems and climate change





Second Year students (age 12/13 years) worked together with Sixth Form helpers (age 16/17) to prepare and track their very own miniboat in the Atlantic.

The students equipped it with a sail and satellite tracker that allowed them and the public to follow the boat's ocean journey, and placed messages inside the watertight cargo hold for the finders.



KES KRAKEN



KES Kraken made its maiden voyage onboard RRS Discovery in March 2022. It was deployed in the tropical Atlantic as part of a RAPID cruise <https://rapid.ac.uk/rapidmoc/> to examine the effects on short-term weather and long-term climate.

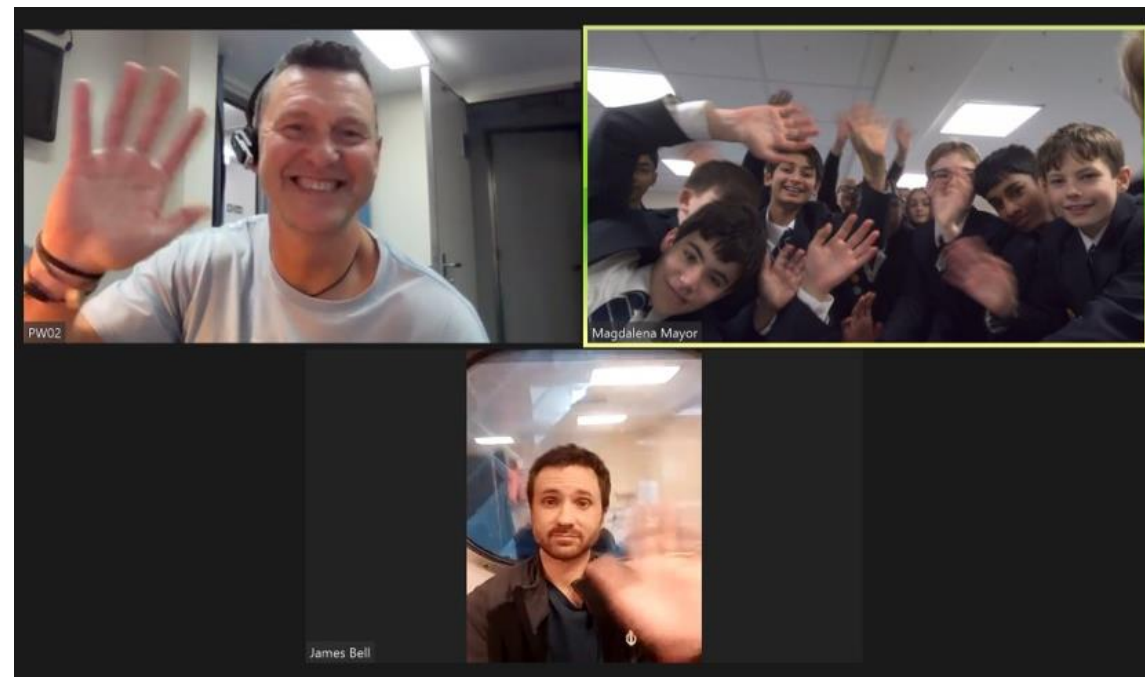
This mini boat also had a suite of **scientific sensors** on board, so students were able to track in real time what the air and water temperature was during the journey and compare it to NOC research.





Nick Rundle (NOC) ensured the boat was seaworthy to deploy from the *RRS Discovery*

The scientists onboard *RSS Discovery* were unable to join the KES students at school, but met them via Zoom





KES KRAKEN was recovered off the coast of Brazil 6 April 2022, after 45 days at sea,

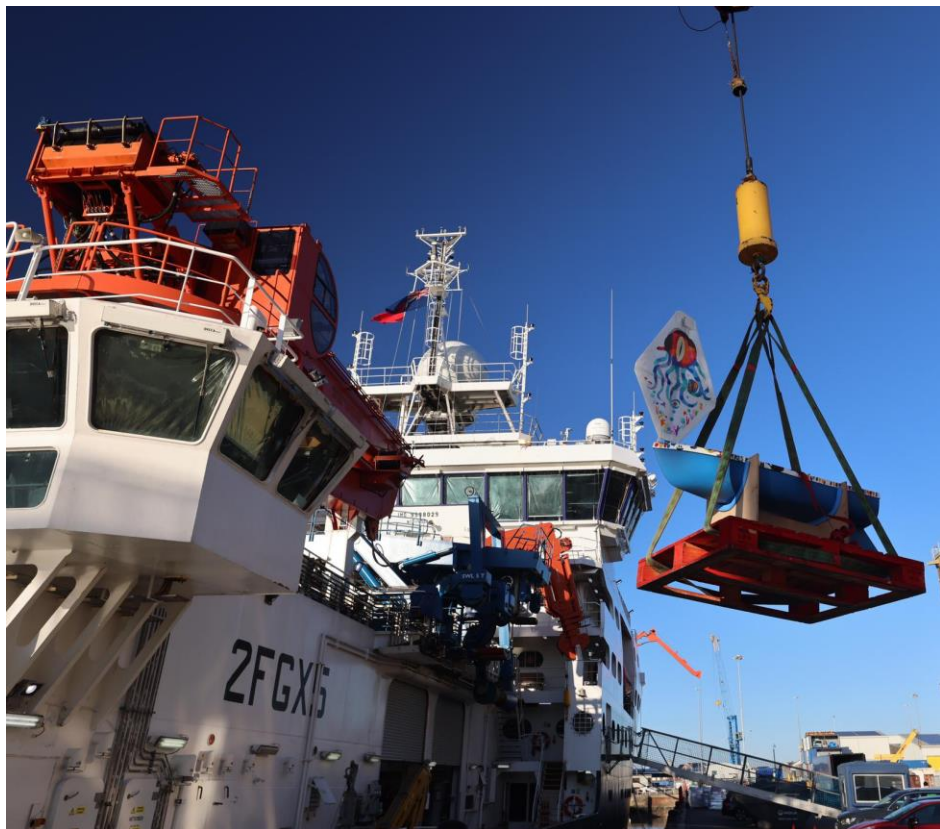


Successful recovery: local coordination and support of Prof. Gabriel Araujo da Silva from Universidade do Estado do Amapá, Maracá-Jipioca Ecological Station in Brazil.





KES KRAKEN



Thanks to Magda Mayor, King Edward VI school (KES); Cassie Stymiest from Educational Passages; Ben Moat (PSO on Discovery), B.B Cael, Filpa Carvalho and Nick Rundle from NOC and Paul Whomersley from CEFAS for generously donating their resources and time. Also, thanks to Gabriel Araujo da Silva for collection.

Kes Kraken was supported by 3 projects DIAPOD (PI Dan Mayor); GOCART (PI Steph Henson) and iFADO (PI Sue Hartman)

Kes Kraken in May 2023



Marilu Amaral and Thiely Oliveira Garcia (Universidade do Estado do Amapá, Brazil) are planning relaunch of Kes Kraken in early June 2023, with NOC support



Marilu Amaral

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- The [KES KRAKEN](#) mini boat is part of a fleet of boats launched from each European Atlantic countries under the umbrella of the [iFADO project](#) funded by the [INTERREG Atlantic Area programme](#).
- The iFADO project aims to combine traditional monitoring with cost-effective, state-of-the-art technologies such as remote sensing, numerical modelling and emerging observation platforms to support the Marine Strategy Framework Directive (MSFD) implementation in the EU Atlantic waters.
- The KES KRAKEN's journey [is available on the Educational Passages website](#)

