

Plymouth Schools STEM Opportunity

Connect with an international ocean research expedition!

In June 2019, your students can interact with marine scientists in the mid-Atlantic

The 'South-North Atlantic Training Transect' (SoNoAT 2019) is an international 'Floating Summer School', where 25 young marine scientists from around the world will spend a month on board the German Icebreaker research vessel, RV Polarstern, as she travels from the Falkland Islands in the South Atlantic to Bremerhaven, Germany. During their time on board, these scientists will investigate how the physical conditions for life in the sea - such as temperature, carbon dioxide content or turbidity of the water - vary in the different climatic zones.

Teaching opportunities across all key stages in:

- Science
 - Biology
 - Chemistry
 - Physics
- Maths
- Geography
- Languages
- Art & Design

How can schools get involved?

We are looking for up to 10 Plymouth schools who would like to:

- Talk to the scientists on board the ship in a real-time Skype call
- Ask more questions via email, video, Twitter & Instagram
- Learn about the effects of pressure in the deep ocean by taking part in our 4000m styrofoam cup design challenge (search **#shrunkencupoff** on Google to see examples)
- Receive in-school visits/talks before and after the expedition
- Use live data from the ship in lessons, eg plot temperature and salinity readings on a map, or compare with data collected in previous years, to see how our ocean is changing
- Interact with other partner schools in Germany, Ireland, Japan, and possibly in the home countries of participating scientists (see list below)

If you are a Plymouth teacher who is excited about the STEM engagement opportunities of this project, please get in touch by FRIDAY 22 MARCH with a few lines about your school, why you want to be involved and how your students would benefit from their participation.

All queries and expressions of interest should be sent to:

Fiona Beckman, Communications Officer, Partnership for Observation of the Global Ocean (POGO)

Email: fbe@pml.ac.uk

www.ocean-partners.org

Scientists on board from:

Argentina
Bangladesh
Brazil
Chile
Colombia
Cuba
Germany
Ghana
Greece
India
Ireland
Kenya
Madagascar
Mauritius
Mexico
Palestine
Senegal
South Africa
Tanzania
Trinidad



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