

From Shore to Open Sea:



a vessel size adapted educational concept for







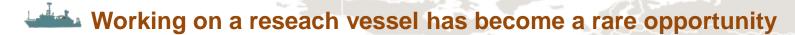




background



WHY shipboard training ??



Due to time issues instruction on board by supervisors are rare

But it is essential for understanding the "matter ocean", methodological pitfalls and sampling issues

Especially, in countries with low or emerging economies opportunities are lacking

Beneficial for all: scholars, teachers, crew members











types and sizes of vessels



- Not just difference in size of vessels, BUT
- difference in duration,
- spatial range
- scientific purpose
- and opportunities



all in common:

- hands on experience / training under "real life" conditions
- application & courses on methods and protocols of low cost devices as well as expensive devices
- easy accessible application procedure, advertise via social media and webpages
- webportal



- independent reviewing process of applications
- involvement of crew
- alumni network









small vessels with coastal range ON





about 4 - 15 m

- one topic per one cruise unit (hours or day) e. g. fisheries, deployment of physical oceanography sensors, phytoplankton
- Post-processing in a local lab
- Capacity to participants





















medium size vessels

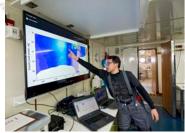




about 15 - 45 m



- From planning to data evaluation
 - Proposal for shiptime, incl station planning
 - Preparation of expedition
 - Conducting and sampling
 - Data management
 - Data processing
 - Multidisciplinary approach
 - night shifts
 - Living and working on board
 - Facing challenging weather conditions
 - Stressful situations

















big size vessels

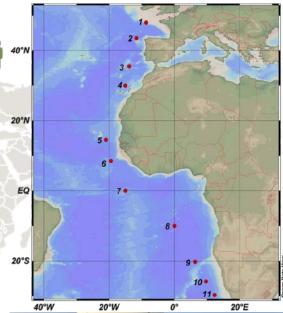




about 15 - 45 m



- Training on board a large research vessel (e.g. RV Polarstern)
- 3-5 weeks, larger distances
- 25-35 scholars per cohort (out ~750 applications), large pool of teachers (7-10 persons)
- Expeditions in 2015, 2016 and 2019 already started, next planned in 2022 onwards











big size vessels





- Training with a rotating module scheme
- Different modules incl. outreach and science communication topics





















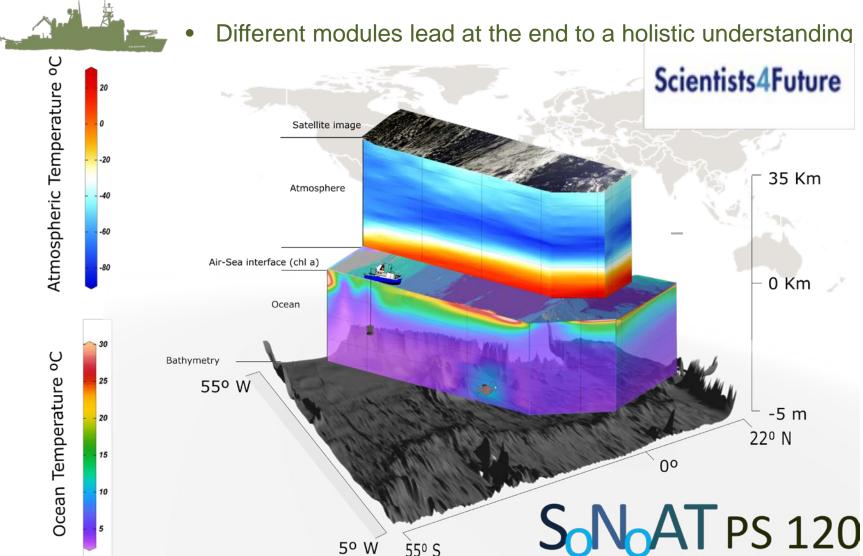






big size vessels





















According to UN Ocean Decade objectives

- Capacity building
- Knowledge transfer
- Transdisciplinary
- Early Career Ocean
 Professionals











Thank you for your attention







