



1st **Ocean Observers** workshop
13th and 14th of June 2017, Brest

adopt a float

Carolyn Scheurle

science communicator and outreach coordinator

Observatoire Océanologique de Villefranche-sur-Mer, OOV

- one of the missions of the OOV: dissemination and outreach
- projects and activities address a mainly non-scientific audience and in particular young people
- participative approach combining dissemination (one-way) and outreach (two-way), web-presence and face-to-face
- 70+ people from the OOV staff contribute regularly, participate to trainings; transversal activity
- one of the objectives is to promote ocean literacy



adopt a float

overview

1/ project and its functioning

2/ feedback of people involved

3/ main challenges and perspectives





main idea

- school classes/groups of students adopt a BGC-Argo float and follow its trajectory
- access real-time data and get an idea of how to interpret them
- better understand the marine environment and the scientific approach
- to adopt and to accompany a profiling float also mean an engagement to share the acquired knowledge

@bgc_argo
biogeochemical-argo.org



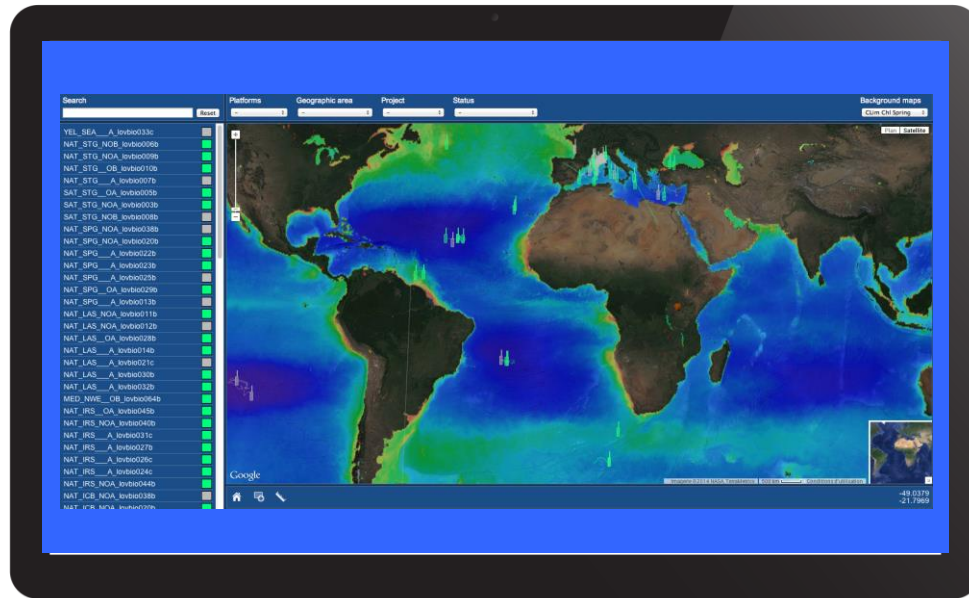


initial objectives

- to share knowledge and tools
- to open a window for young people to discover the ocean

interactive map

scientific tool



outreach tool





beginning of the adventure

Integrating profiling floats with extended capabilities in future education and outreach activities

Scheurle¹, C., Claustre¹, H., Antoine¹, D., Boss², E., Johnson³, K., Körtzinger⁴, A., Mangin⁵, A., Nolet⁶, G., Perry⁷, M.-J., Schofield⁸, O. and J. McDonnell⁹ (2010).

¹CNRS and University P. & M. Curie, Laboratoire d'Océanographie de Villefranche, 06230 Villefranche-sur-mer, France. scheurle@gmail.com, claustre@obs-vlfr.fr, antoine@obs-vlfr.fr

²University of Maine, School of Marine Science, Orono, ME 04469, USA. emmanuel.boss@maine.edu

³Monterey Bay Aquarium Research Institute, 7700 Sandholdt Road, Moss Landing, CA 95039, USA. johnson@mbari.org

⁴Leibniz-Institut für Meereswissenschaften (IFM-GEOMAR) Chemische Ozeanographie Düsterbrookweg 20, 24105 Kiel, Germany. akoertzinger@ifm-geomar.de

⁵ACRI-ST, 260 route du Pin Montard, B.P. 234, 06904 Sophia-Antipolis cedex, France. antoine.mangin@acri-st.fr

⁶Geosciences Azur, 06560 Sophia-Antipolis, France. nolet@geoazur.unice.fr

⁷University of Maine, School of Marine Science, Walpole, ME 04573, USA. perrymj@maine.edu

⁸Coastal Ocean Observation Laboratory, Institute of Marine and Coastal Sciences, School of Environmental and Biological Sciences, Rutgers University, New Brunswick, NJ 08901, USA. oscar@marine.rutgers.edu

⁹Department of Youth Development, Rutgers University, New Brunswick, NJ 08901, USA. mcdonnell@njaes.rutgers.edu

General context

The Argo program is a remarkable example of international collaboration to setup a system delivering oceanographic data in real-time. Launched in 1999, one decade later, this program is now mature with more than 3000 floats operationally delivering

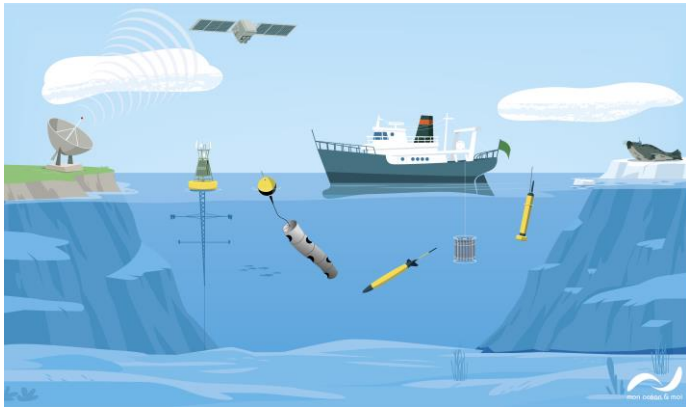
...



Networked Ocean World



tandem approach



two participative projects
started in 2011
with thematic contributions on
ocean observation



project type
public

dissemination
wider public with focus on young people



project type
public

educational
school and master students



functioning

- school classes/groups of students > ocean voyagers
- 2012-2013: three middle-school classes in Southern France
- 2016-2017: more than 15 classes and groups of students (more than 460 students and 30 teachers)
- primary and secondary educational level, master level
- different regions and countries (e.g. Tahiti, UK, Italy, South Africa)
- some classes/teachers participate for several years
- co-adoption of floats
- registered classes and participation in freelance mode





functioning

- exchanges via internet and visits within the school environments
- training for teachers
- training for school students to become science animators, e.g. during the annual French Science Festival
- active participation of PhD students at the OOV
- proposition of additional topics, e.g.:
 - seasons in the ocean (2015-2016)
 - polar oceans (2016-2017)
 - deep oceans or Mediterranean Sea (2017-2018)
- pupils/students present their results at the end of each school year





feedback

... **scientists**

- + possibility to participate to an existing project
- + share moments with the young people

... **PhD students**

- + increase competences concerning outreach activities
- + network

... **teachers**

- + multidisciplinary aspects and accessible resources
- + scientists passion touches their students

... **pupils/students**

- + meet the scientists in person
- + real topics concerning an interesting environment

... **school authority**

impact will be discussed by Marie-Pascale Zugaj-Benteo

... **outreach coordinator**

- + connect people
- ... and connect them with the ocean



main challenges & perspectives

- language barriers
- different school programs in each country
- each school class/group of students has different needs
- guarantee implication of science colleagues over the years
- increasing efforts necessary in terms of organisation
- time-consuming





main challenges & perspectives

work on-going and foreseen:

- 1/ review, complete and translate scientific contents
- 2/ renew the web interface
- 3/ facilitate communication between all participants
(e.g. blog > twitter; done and tests on-going)

Do you have an idea?

Do you wish to contribute/collaborate?



Thanks to the team
and the financial support of
ERC remOcean, PIA NAOS

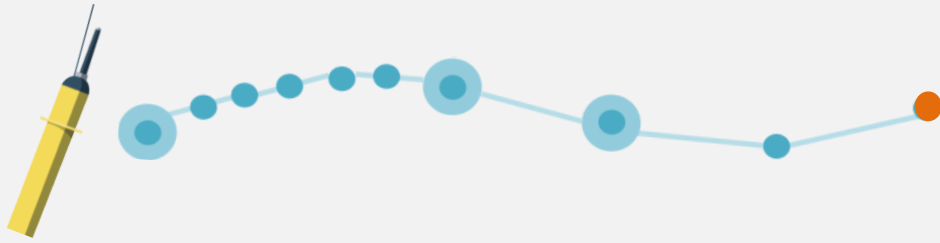
3 projects EU FP7 (GROOM, SIDERI and OSS2015),
Climate Initiative/Fondation BNP Paribas (SOCLIM),
EU H2020 (BRIDGES), Conseil Départemental 06



RÉGION ACADÉMIQUE
PROVENCE-ALPES-CÔTÉ D'AZUR

MINISTÈRE
DE L'ÉDUCATION NATIONALE
MINISTÈRE
DE L'ENSEIGNEMENT SUPÉRIEUR,
DE LA RECHERCHE
ET DE L'INNOVATION





*thanks for
your attention!*

@AdoptaFloat
adoptafloat.com
carolyn.scheurle@obs-vlfr.fr

