

## **Inspiring students through an authentic polar science expedition: the RESEt Project**

Matteo Cattadori

Liceo F.Filzi, Rovereto. Trento. Italy (mcattadori@gmail.com)

RESEt (Research and Education Svalbard Experience [www.resetsvalbard.it](http://www.resetsvalbard.it)) is an ongoing educational project focusing mainly on polar and climate system topics. It started in 2014 and will end in 2017 with the high school diploma of the 22 students (16 y. o.) making the participant class. This class attend a school (Liceo Filzi, Rovereto, Trento. Italy) with a primary focus on disciplines like philosophy and education, rather than STEM (Science, Technology, Engineering, and Mathematics). Nevertheless their science curricula include climate topics that are rather challenging to grasp and, at the same time, crucial for their scientific citizenship. Some questions arise: How to foster their interest in geosciences topics? How to engage them in authentic scientific knowledge? How to increase their interest in scientific university courses during their post-secondary career?

RESEt project will attempt to answer these questions through the development of integrated activities distributed over the last three years of their high school cycle. The most important moment will be an educational scientific expedition at the Svalbard, an archipelago located in the Arctic. The expedition be entirely organized, planned, and directed by students.

In Svalbard, students will visit the main scientific facilities devoted to climate studies including those of Italian CNR (National Research Council) and they will perform some environmental measurement using data-loggers. Students are even involved in the fundraising process to raise more than ten thousand Euros needed to for travel expenses.

This work is aimed mainly at presenting some of the preliminary data collected during the RESEt project, including the fundraising aspects.

The management of the RESEt project strongly relies on the experience and network gained by the abstract author during the participation to the Education and Public Outreach (EPO) program of International Polar Year (IPY) 2007-2009 as well as the support of Polar Educators International (PEI) an association of polar educators and teachers. The formal presentation of the final results achieved will be held during the 3rd edition of the PEI International Workshop that will be organized in Italy in April 2017.