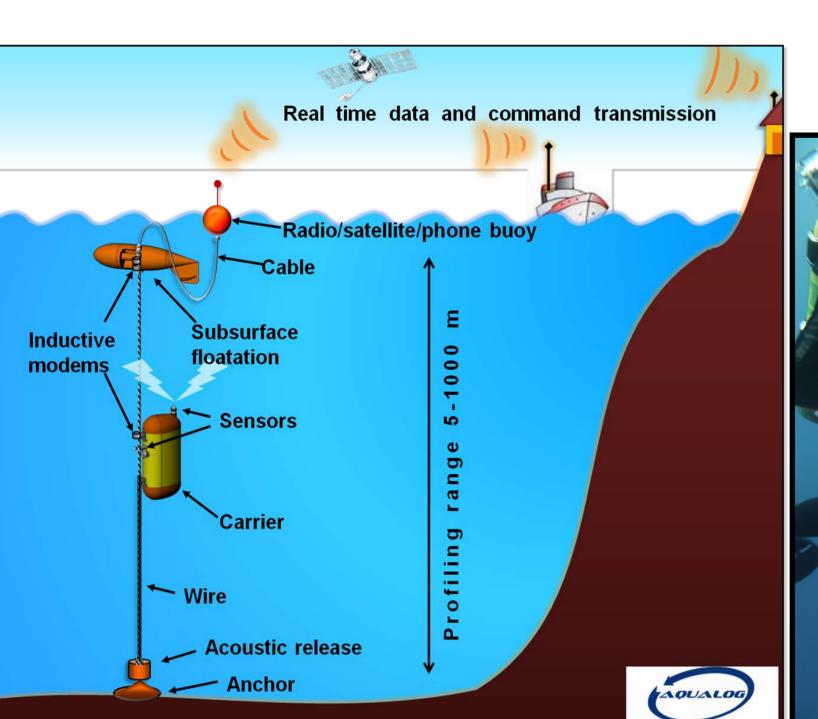


DATA PROCESSING, STORING AND PUBLISHING FOR THE AUTONOMOUS MOORED PROFILER AQUALOG

P.P. SHIRSHOV INSTITUTE OF OCEANOLOGY

Russian Academy of Sciences

Vladimir Solovyev, Tamara Shiganova, Alexander Ostrovskii



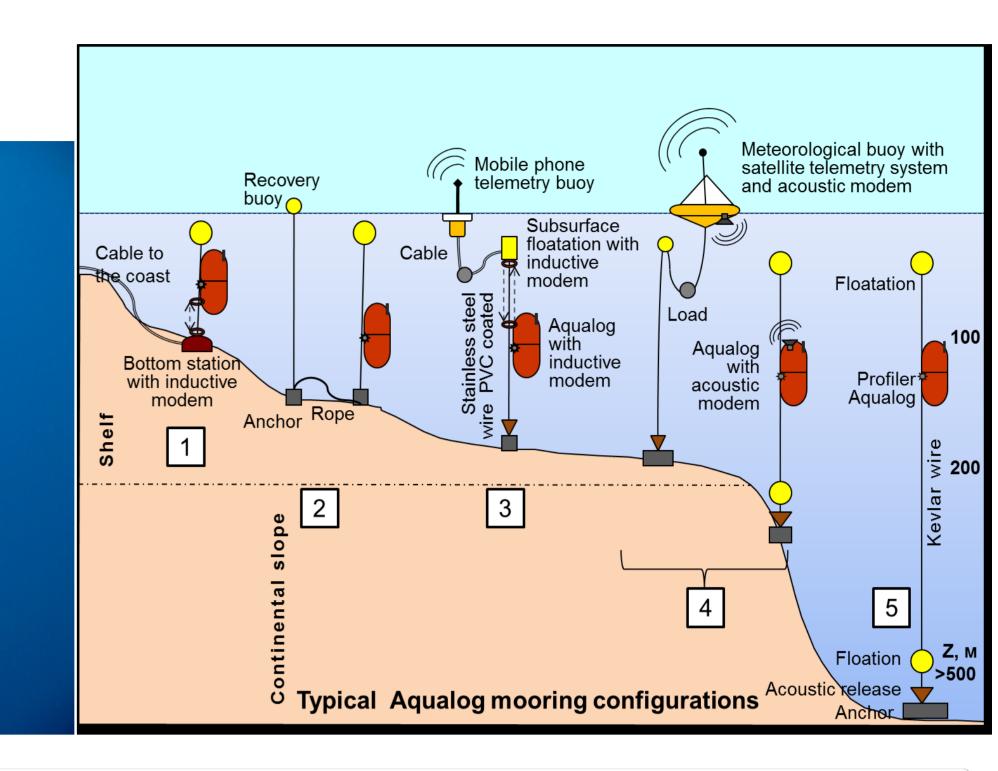
AQUALOG Multi-sensor platform for vertical profiling in the ocean

Carrier with Surface buoy for data transfer via sensors, moving satellite or radio up and down the mooring line channel **System**

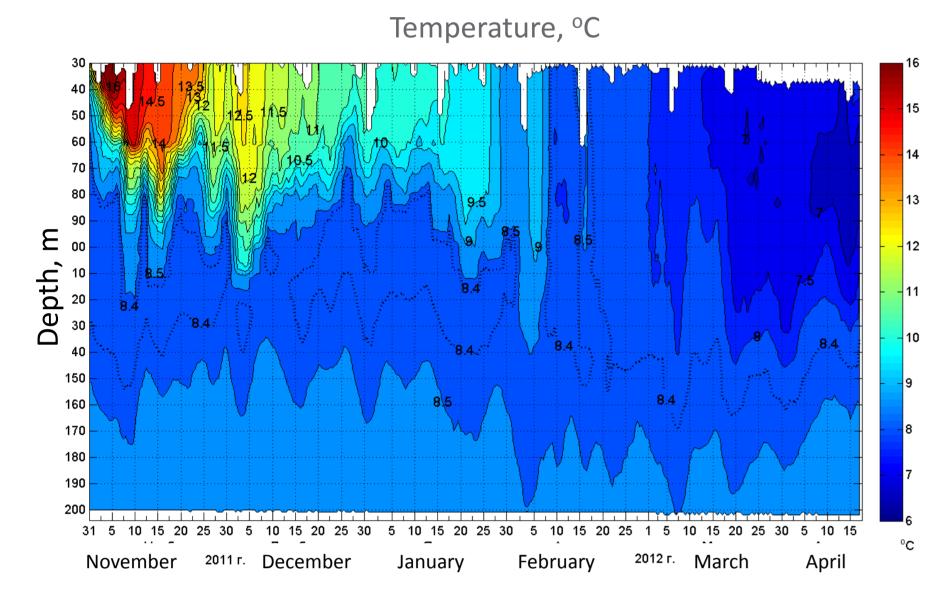
features

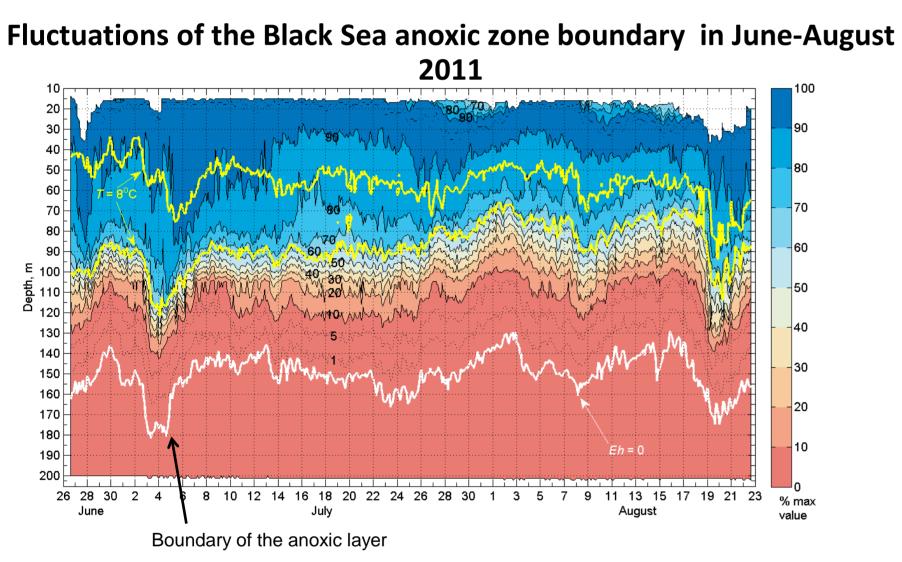
Underwater communication by means of inductive modems

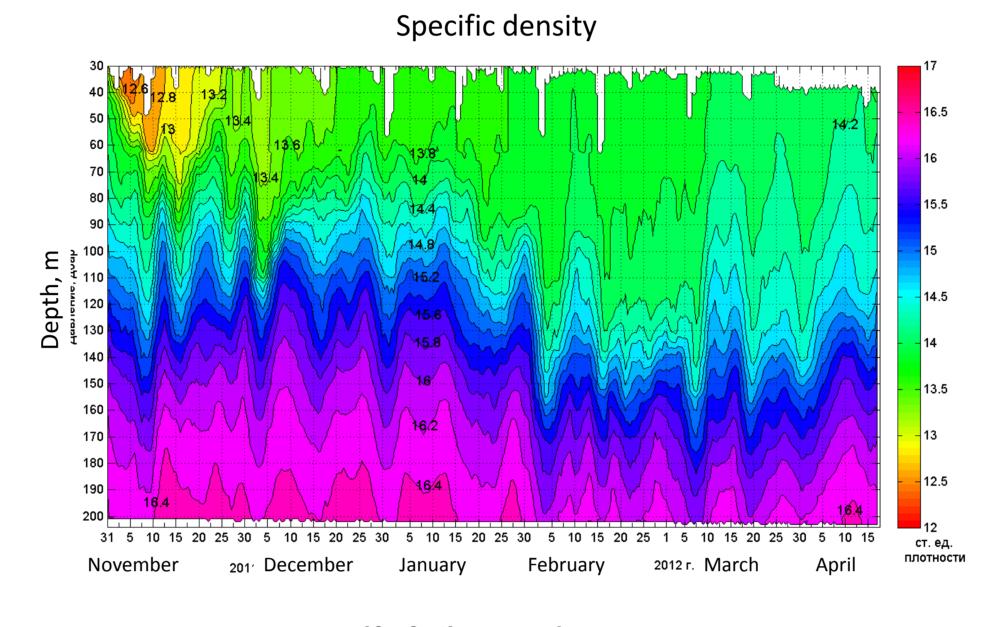
Subsurface flotation moored with taut wire (plastic coated stainless steel) /

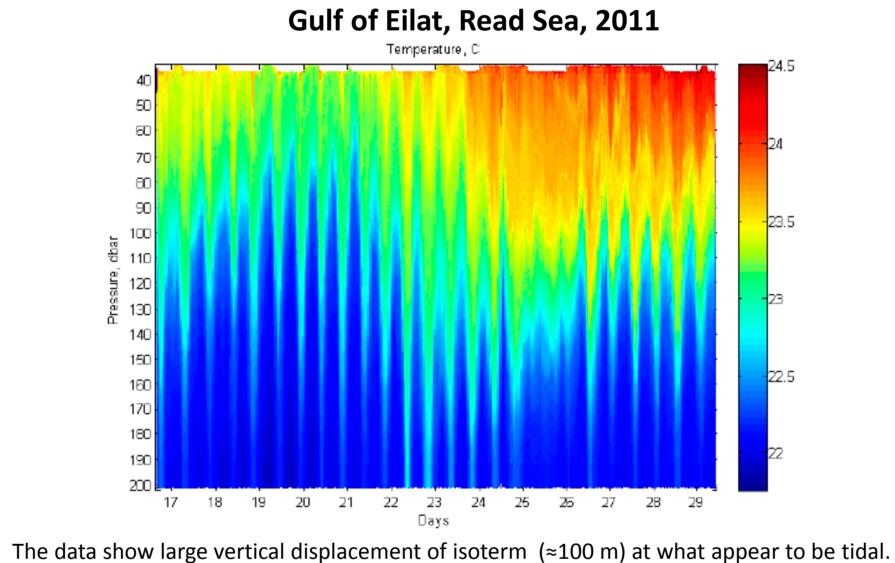


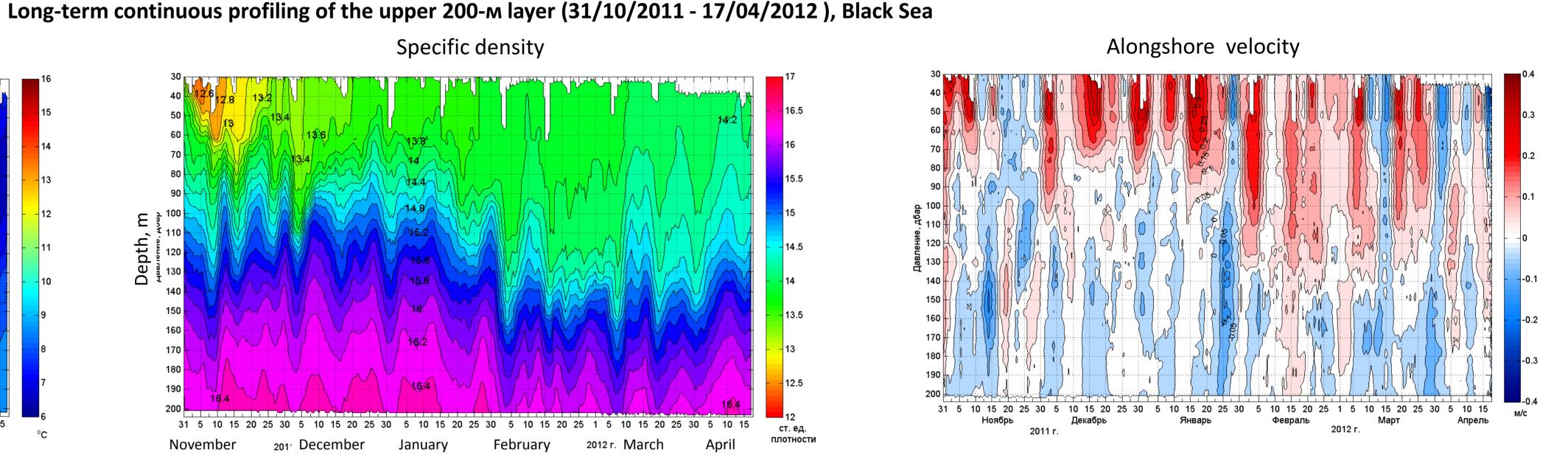
Data obtained examples

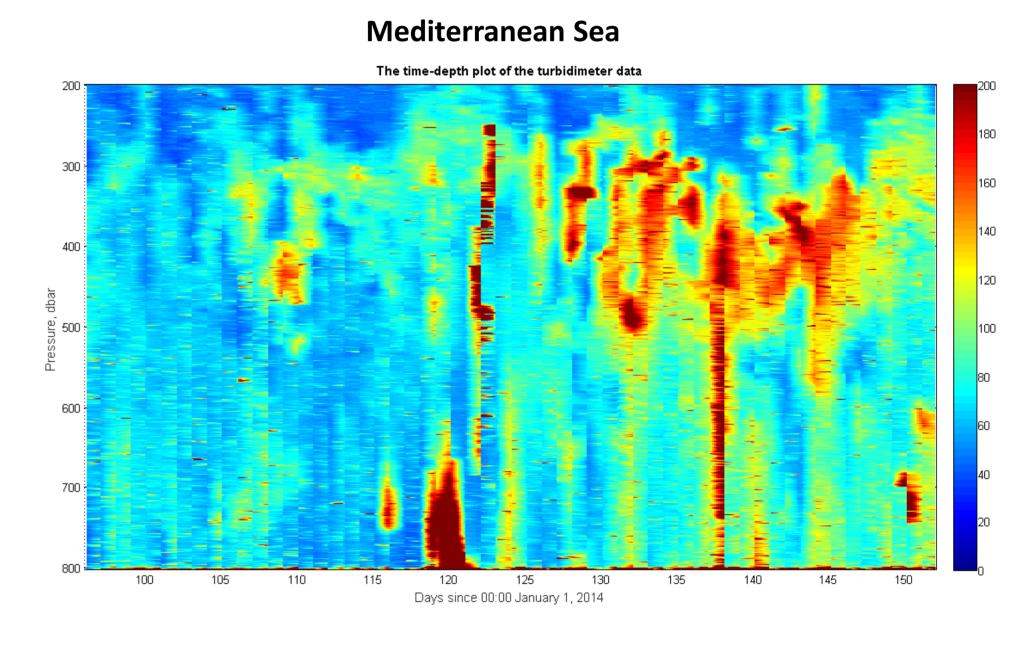


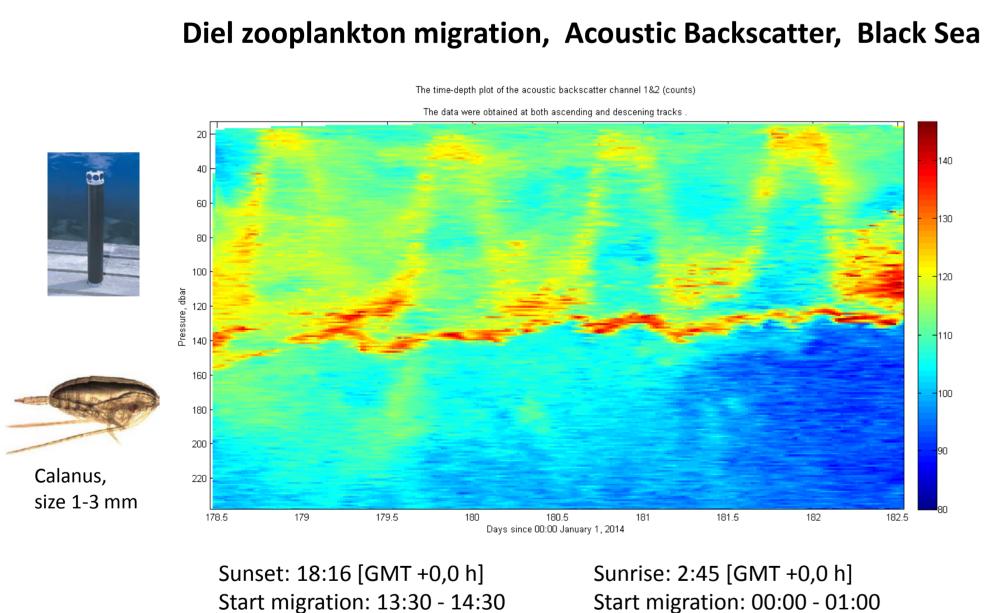






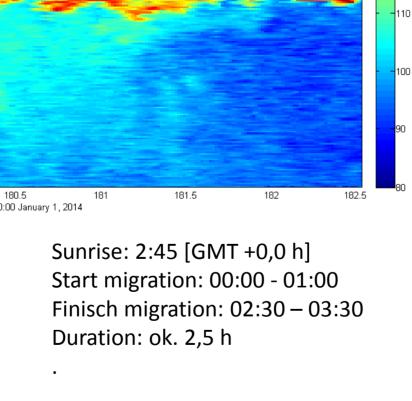


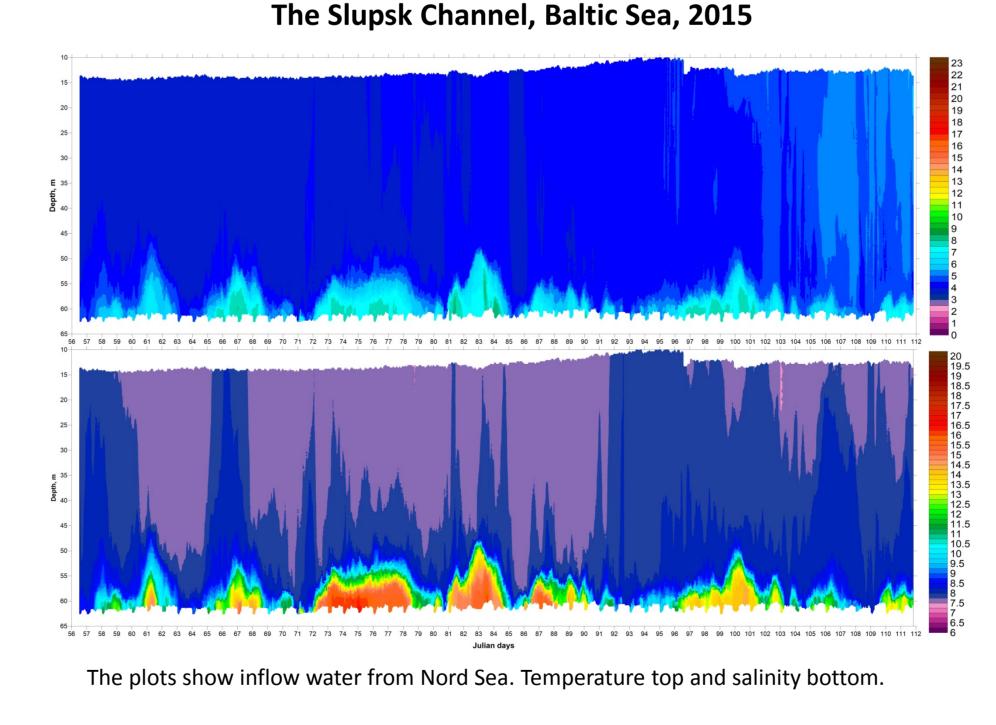


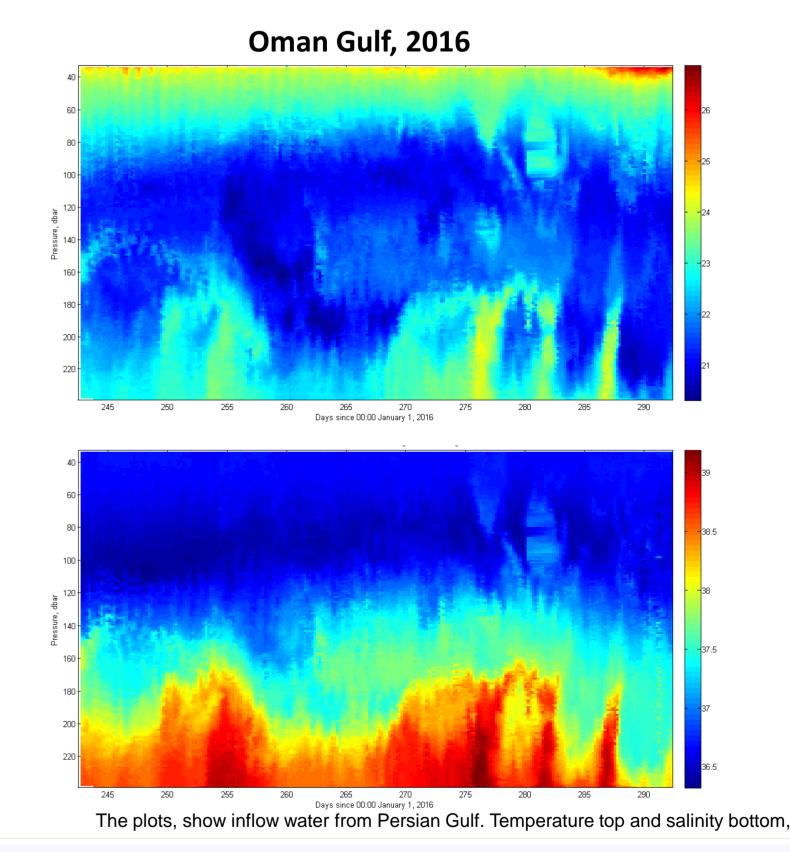


Finisch migration: 17:00 - 18:00

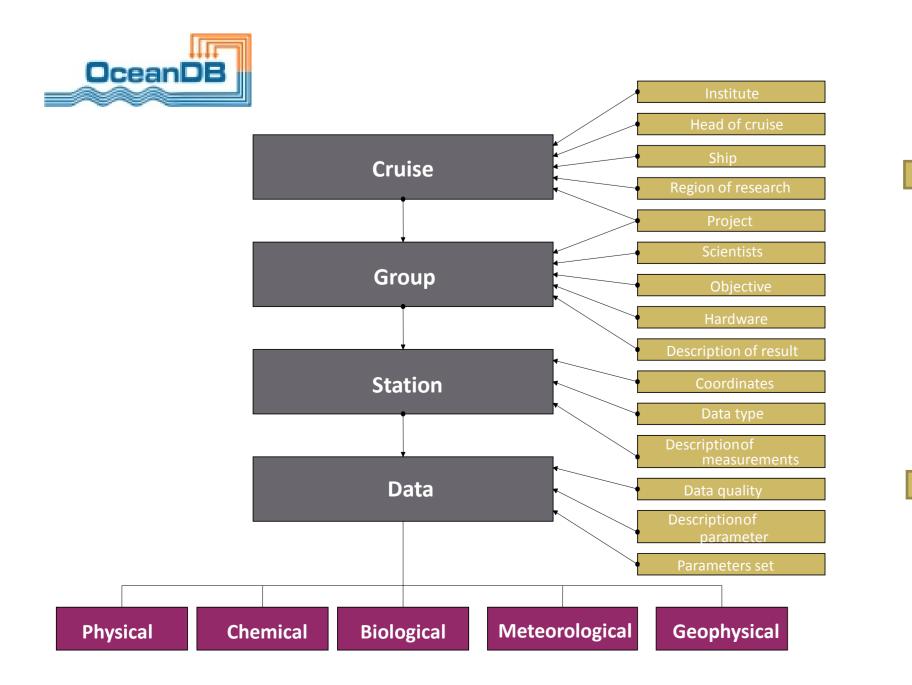
Duration: ok. 3,5 h

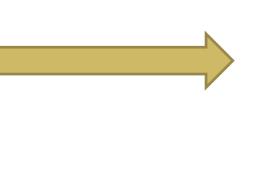






Data storing and publishing









The data obtained by Aqualog profilers are described using the SensorML standard was transferred to the data center of the Shirshov Institute of Oceanology. In the data center, quality control was carried out to verify the following: all the data was in the regional parameter range, ascending and descending profile data variance remained within the predefined limits, pressure and density inversions were eliminated, spikes were tested, proper visual QC was obtained, and etc. After QC check the data store in the oceanographic data warehouse OceanDB.

OceanDB provides the structured storage of diversed oceanographic data on the following scientific sections: physics of ocean, ocean chemistry, marine biology and ecology and geology. CDI indexes and records for Download manager coupling table are automatically processed for data publish in EMODnet and SeaDataCloud system.