Geophysical Research Abstracts
Vol. 14, EGU2012-2842-1, 2012
EGU General Assembly 2012

Real time access and long term archiving concepts for HYPOX observatory data

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Two cabled observatories have been deployed during the FP7 HYPOX project: One in the Scottish Loch Etive, a 30 km long and 150m deep Sea Loch, which is connected to the ocean and another one in the open Swedish Fjord Koljoefjord, approximately 100 km north of Gothenburg. We will present the data access and management architecture as well as long term archiving strategies compliant with the EMSO/ESONET standards and concepts which we have implemented for these two observatories.
Delivery of real time data builds on the OGC Sensor Web Enablement (SWE) family of standards, in particular the Sensor Observation Service (SOS) which serves for two purposes. First, we use SOS data to provide public real time access to observatory data via the internet served by a AJAX web client. Second, a SOS harvesting service enables the semi-automatized archiving of data within the PANGAEA long term data archive.
Both, real time data as well as archived data are registered at GEOSS and are offered to the public via PANGAEA and the HYPOX data portal, which offers simple data visualization and exploration tools and is accessible at: http://dataportals.pangaea.de/hypox.