**Seismic Surveys in the Arctic: Visualization on maps and link to data archive at the Alfred Wegener Institute**

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Seismic reflection experiments are carried out to image the structure of the subsurface and reconstruct geological or geophysical events such as erosion, modifications in depositional conditions or tectonic. The findings provide constraints on the development of ocean basins, gateways, ridge- and rifts-systems, and how they influenced paleoceanography and natural climate variability on long timescales.

The contribution presents the way in which the Alfred Wegener Institute makes its seismic data visible and accessible, and the difficulties that arise. Aim is to visualize the marine seismic profiles measured to date on maps via track lines and to make the corresponding data accessible to the geoscientific community via the digital library system "PANGAEA" as part of the "Open Access Agreement".

For a first overview the online portal https://marine-data.de presents the location of the acquired seismic reflection lines. By clicking on the profile, it displays meta data as expedition data, contact persons, descriptions of the surveys, and link to the cruise report. JPG-Images are provided for some significant seismic profiles. These maps can be quickly updated after new expeditions to keep the community informed about where data has been collected and where there are still gaps.

In a second step the Marine Data Portal is linked to the data archive “PANGAEA”. The data itself can be accessed there within the scope of the “Open Access Agreement”. This is what we are still working on. Some of the expedition data are already archived in Pangaea, but as this step is very time-consuming, it will take us some additional time to enter all available seismic data. The Pangaea archive provides the basis for the data to be permanently visible to the scientific community and to be digitally available for future projects. Another major advantage is that the data is assigned a DOI, which is becoming increasingly important for the submission of publications, research proposals and other applications.