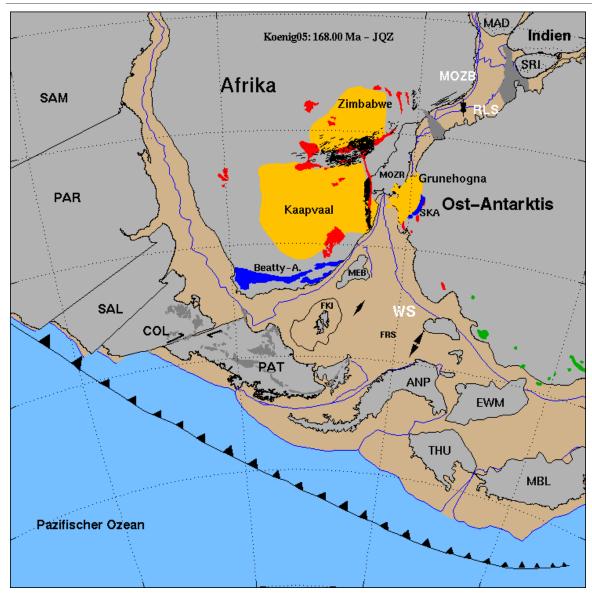




Reconstruction of Gondwana break-up



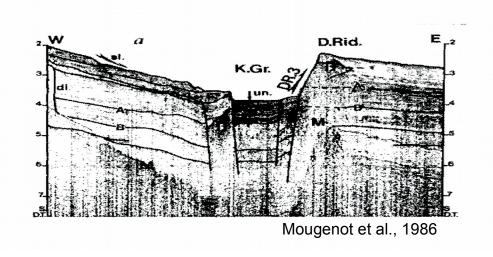


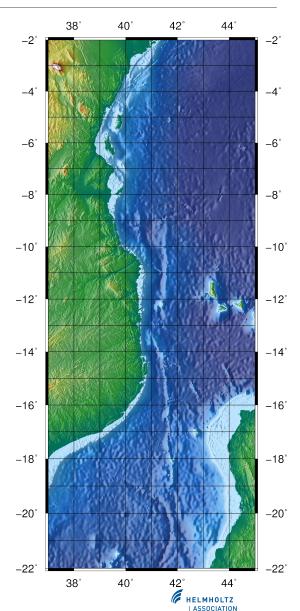


Scientific Aim



- Characterisation of rifts and deeper structure of the crust along the Davie Ridge
- Composition of the crust in the transitional area
- Offshore propagation of the eastern branch of East African Rift System

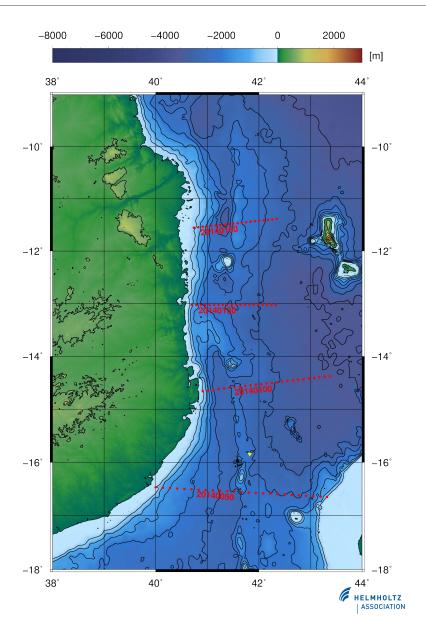




Database



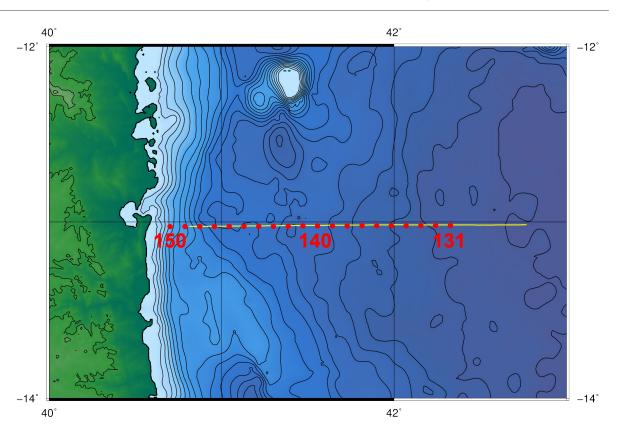
- Cruise SO230 in January and February 2014
- 4 seismic refraction profiles
- In total 90 OBS/OBH
- Additional bathymetric, gravimetric and magnetic data



Profile 130



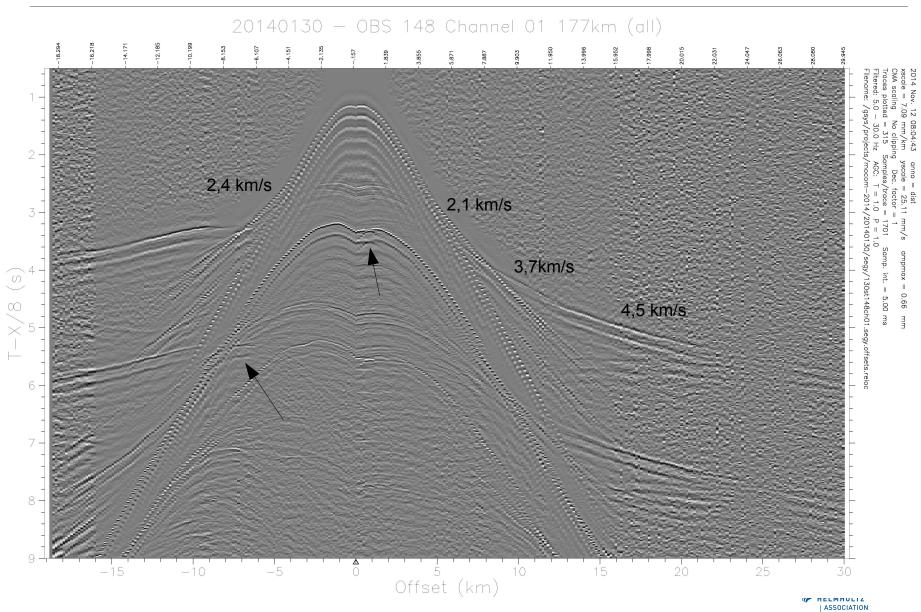
- 20 OBS / OBH
- Best data quality, data at all stations
- Reflection seismic line starts between OBS 149 and 148
- Prolongation of Davie Ridge between OBS 139 and 141





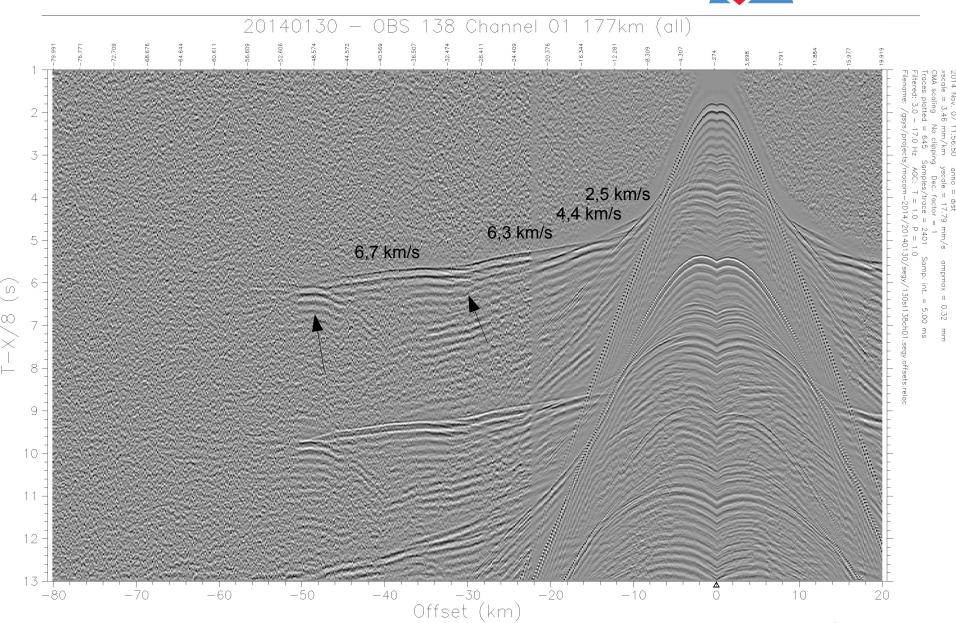
Station 148





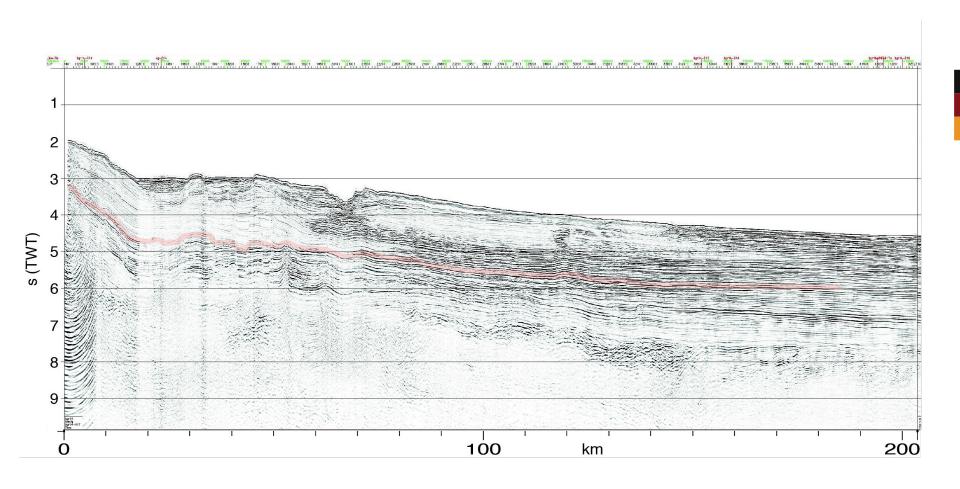
Station 138





Comparision to reflection seismics

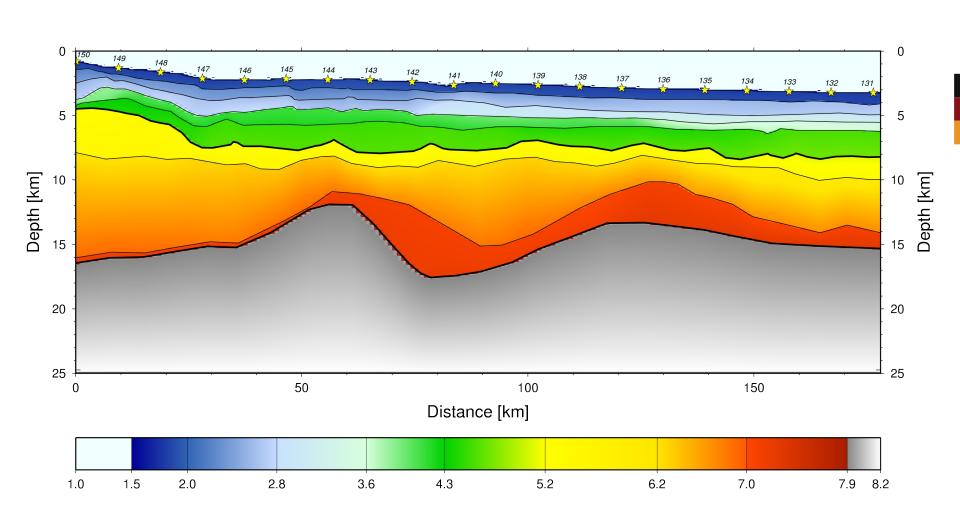






Velocity model

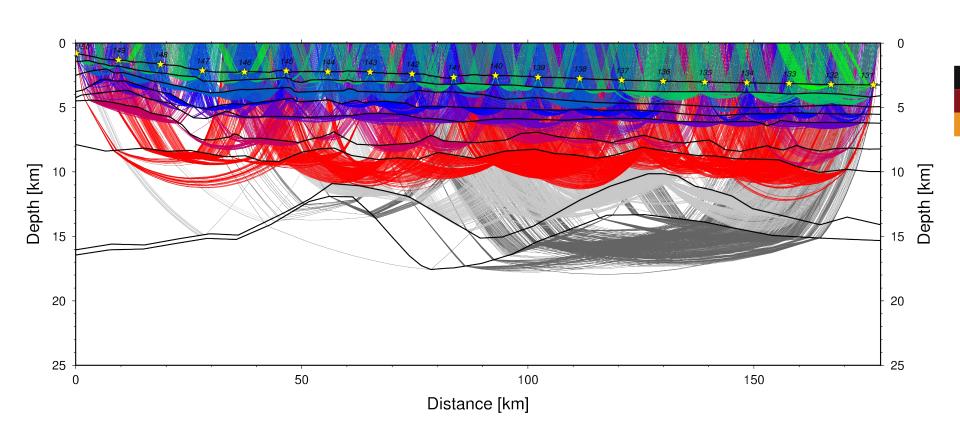






Raycoverage Refraction

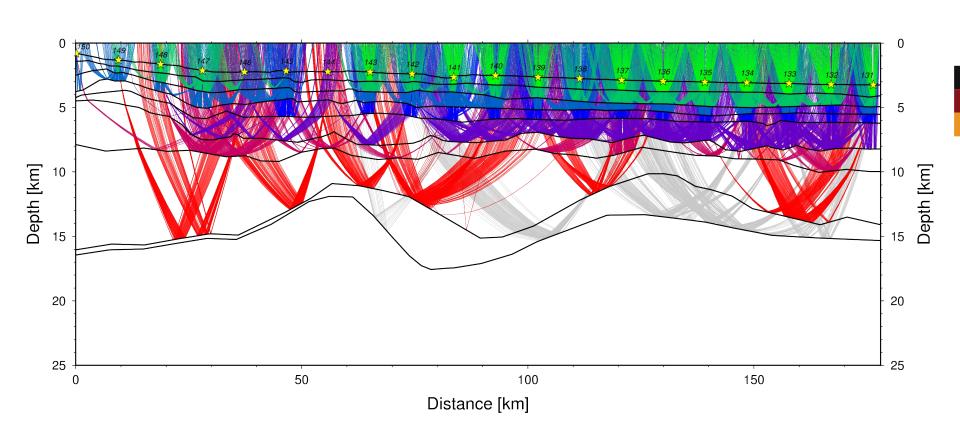






Raycoverage Reflection







Further work / Open questions



