

Project: **964**

Project title: **Detectability of non-tidal ocean signals in Earth's magnetic field (OceanMag)**

Project lead: **Jan Saynisch**

Report period: **2017-01-01 to 2017-12-31**

We had a very productive second project year, too. We successfully assimilated magnetic field observation surrogates into an global ocean circulation model (Irrgang et al., 2017). The sensitivity of the induction process due to spatial and temporal variations in seawater conductivity could be investigated further. We found fingerprints in of climate change in tidal magnetic fields based on IPCC climate simulations (Saynisch et al., 2017).

We finished several international benchmark studies that compare the existing electromagnetic induction models and the results were presented in many national and international conferences (e.g., EGU).