

Project: **964**

Project title: **Ocean signals in Earth's magnetic field (OceanMag II)**

Project lead: **Jan Saynisch**

Report period: **2021-01-01 to 2021-12-31**

2021 was mostly impacted by COVID. We tried to establish constant workflow in an ever changing situation, concerning home-office and office-office. Nonetheless, we managed to finish an important work on sedimentation and its sensitivities (Drinkorn et al., 2021). In three other works we managed to advance the direct observation of electric signals from ocean tides and ocean circulation. All three will be submitted within this month and hopefully will count towards the successes of 2021. Our group expanded the use of AI methods further and was able to contribute to the discussion to what extent AI methods could aid or replace traditional Earth system modelling (Irrgang et al., 2021). From the DFG side the OceanMagII project was extended for 6 Month.