Planning for multi-disciplinary observations

Understanding and quantifying the impacts of climate change on the Polar Oceans and ecosystems, and their global consequences, are of paramount importance. Changes in the physical and biogeochemical state of the Polar Oceans are already underway. To achieve enhanced understanding of the state and to predict future changes, sustained multi-disciplinary observations are essential. Integrated observing systems for the polar oceans have been advocated for a while (SOOS, CLIVAR, CliC). Moored arrays, autonomous platforms, remote sensing and ship-based observations are all required for this purpose. Norway`s efforts towards this goal in the Southern Ocean off Dronning Maud Land will be highlighted with ongoing ocean observatories and RV Kronprins Haakon 2019-cruise.