

Compilation of marine assignments (in no particular order):

Projects for the planned Slite CCS-facility, including offshore platform, pipeline and harbor expansion:

- 1:** Calculation of dredging volumes of soft and hard bottom layers, for multiple harbor extensions options, and the deepened shipping lane.
- 2:** Planning the CCS-pipeline position with technical consultants, by assessing bathymetry, side-scan images, macrophyte, noise-levels, as well technical and economical aspects.
- 3:** Assembling data and coordinating inventories for multiple areas of investigation around Slite, including water chemistry, hydrography, marine mammals, environmental-toxin, and so forth.
- 4:** Detailed assessment of eelgrass presence around Slite harbor, using data from multiple prior surveys, side-scan classification and diving transects.
- 5:** Analysis and coordination of sonar surveys (side-scan, single- and multibeam) in collaboration with Deep Vision.
- 6:** Remote sensing of marine parameters, e.g. water temperature, wave movements, water chemistry, secchi depth, and depth via SDB (satellite-derived bathymetry).

Writing, analysis and field inventories of nine planned offshore wind farms, including:

- 7:** Writing and analysis for multiple legal applications for offshore wind farms
- 8:** Habitat modeling of benthic fauna and macrophytes.
- 9:** Seasonal eDNA-survey aiming to identify herring spawning using the ratio of cellular and mitochondrial DNA for the wind farm Storgundet.
- 10:** Assessing fish communities with models using long term monitoring data.
- 11:** Assessment of fishing pressures using long term catchment data and ship traffic.
- 12:** Deployment and retrieval of F-pods for acoustic inventories of marine mammals.
- 13:** eDNA inventories and analysis of marine fauna.

Other marine assignments

- 14:** Categorizing seabed habitats around Gotland using the Mosaic classification system.
- 15:** Quantifying marine protected areas in a national overview. Including assessment of the pace of increase, types of protection, and the total percentage of Swedish ocean protected.
- 16:** Analysis of rising sea level impact on beach meadows during the 21th century for the County of Östergötland.
- 17:** SeaBased (International Life project). Investigating the eutrophication in the Baltic sea and its surrounding catchments. Utilized multiple experimental approaches to chemically bind and remove phosphorous, including the usage of burned Marl stone.
- 18:** Coast4Us (International Life project). Focused on the sustainability of archipelago communities, from an ecological and economical viewpoint.