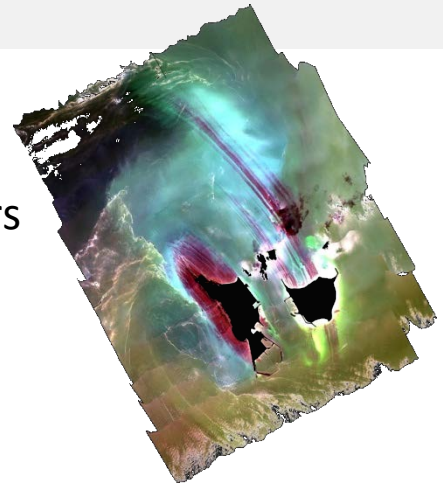
Development of an EnMAP-Routine to Map and Monitor Submersed Marine Macrophytes - KelpMAP



Helgoland 06.08.2010
(Mosaic R/G/B (647nm/548nm/471nm), stretched, AISA Eagle)

Objectives:

- Quantify submersed aquatic macrophytes in case II coastal waters
- Develop an EnMAP to identify submersed aquatic macrophytes (kelps)

Duration :

- October 2010 till June 2013

Products / Parameters:

- EnMAP routine to
  - Extract vertical distribution of kelps
  - Unmix and classify submersed vegetation
- Development of a concept to assess coastal (sublitoral) habitat types using EnMAP data

Gefördert durch:
Bundesministerium für Wirtschaft und Technologie
aufgrund eines Beschlusses des Deutschen Bundestages

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Added Value (quantitative /qualitative):

- Knowledge of limitations of EnMAP products in turbid coastal waters
- Routine for EnMAP Toolbox
- EnMAP concept to assess coastal habitat types

- **Involved Organisations:**
- CAU / Alfred-Wegener-Institut für Polar- und Meeresforschung / EoMAP / OHB / FIELAX

Additional:

- Project area: Helgoland
- EO data source: $AISA_{eagle}$ August 2010 and July 2011
- Validation data (water constituents, RAMSES, diving transects, echo-sounding transects, secchi depth, Felswatt mapping, field spectroscopy)

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