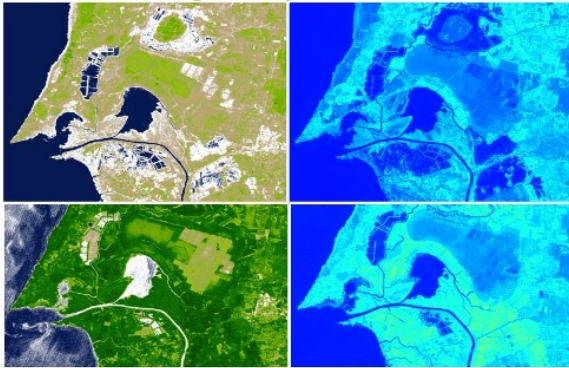
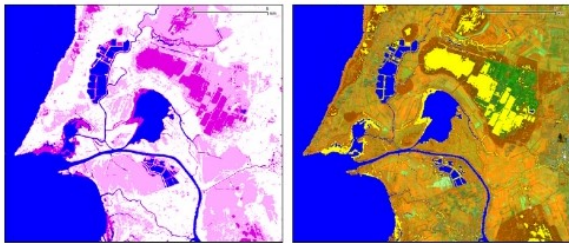


# GLO water and wetlands

Earth Observation Support to Global Monitoring of Water Resources



Biophysical parameters in a time-series of satellite images indicate permanent and temporary water and wetlands



Classification of permanent water (blue) and wetlands (dark magenta) layers on top of a high resolution satellite image

**Users:** Regional and national authorities

**Need:** Water resources affected by climate change, yet critical to survival of ecosystems and human societies

**Challenge:** Spatial dynamics of water bodies and structural / seasonal diversity of wetlands

**Initiative:** Automated processing of a large archive of multi-temporal High Resolution satellite imagery, statistical analysis and filtering, based on threshold values, combined with object-based classification of biophysical parameters, reflecting climatic conditions of the environment throughout the vegetation season.

**Results:** Identification and mapping of permanent water bodies and wetlands across the whole area of EU and beyond – starting point of a long-term monitoring.

**Service provider:** GEOMATRIX UAB  
([www.geomatrix.lt](http://www.geomatrix.lt))

**EARSC**

European Association  
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