EO services contributing to SDGs

Freshwater ecosystem monitoring

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6 CLEAN WATER AND SANITATION

- User: Public institutions governing nature protecting areas and institutions governing and protecting freshwater bodies
- Challenge/Needs: Chlorophyll-a content monitoring in large freshwater bodies
- Initiative: Use of Sentinel-2 MS imagery to detect the process and estimate the degree of eutrophication in Vrana lake, a largest freshwater lake in Croatia. Vrana Lake in details:
  - the largest lake in Croatia (~ 30 km2)
  - Shallow Lake, average depth = 2 m
  - Lowland, crypto-depression on carbonate background
  - Mesotrophic
- Results: maps showing the dynamics of Chlorophyll-a content in Vrana lake form 2016. to 2017.
- Service Provider: Oikon Ltd. – Institute of Applied Ecology

Target 6.6: By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes. EO services based on Monitoring the extent of water related ecosystems over time. Indicator 6.6.1: Water-related ecosystems

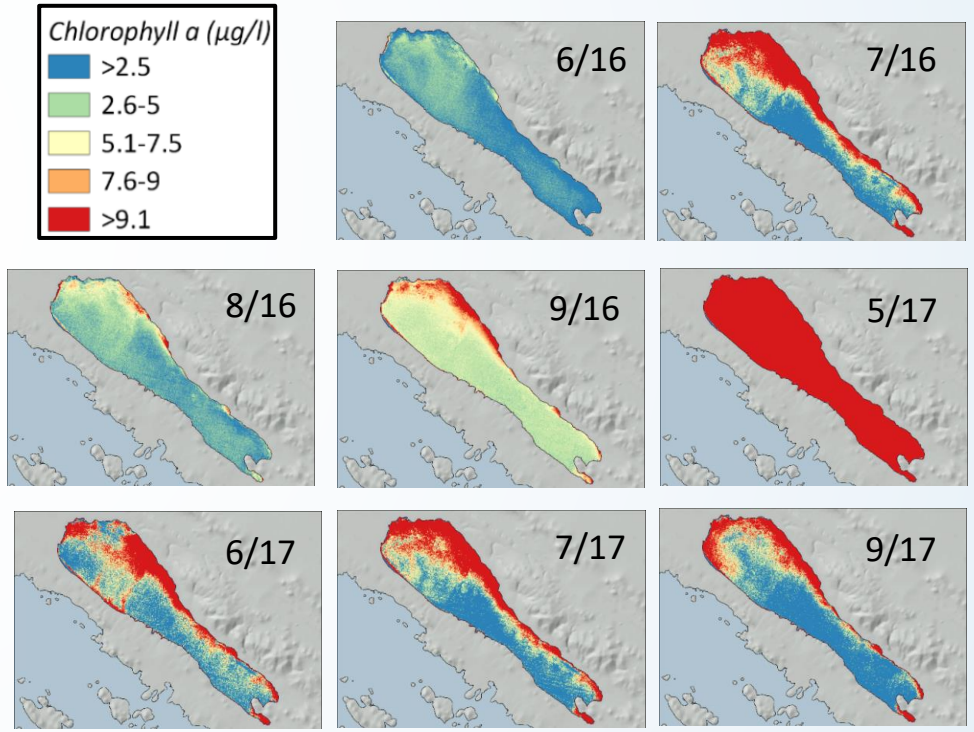

Figure: Eutrophication of Vrana lake in Croatia detected from Sentinel-2 imagery

EARSC
European Association of Remote Sensing Companies