

Operational Monitoring

4A. From a scientific perspective, what would be the most critical parameters to be measured from space to characterize the freshwater resources?

- IOPs, Water constituent concentrations? Phytoplankton functional types? Carbon?
- Atmospheric parameters (aerosols)?
- Different radiometric measurements (atmosphere, above water, in-water)?

4B: From perspective of operational monitoring of freshwater resources, what which contribution is expected / most demanded from remote sensing?

- Which parameters? How should these parameters be measured to fit best with in-situ programmes?
- Spatial & temporal resolution requirements?

4C What are the gaps in existing technologies and algorithms for operational product generation and validation?

- Characterisation of optical properties of different water types? Quality of atmospheric correction? Quality of in-water retrieval?
- Reliability of results? Availability and/or accessibility of in-situ data for algorithm calibration and validation?
- Processing capacity? Local knowledge?

4D In which way can remote sensing optimally contribute to operational monitoring of coastal and freshwater resources?

- Mapping of coastal areas and inland waters which are hard to access?
- Replacing (partly) on-situ measurements programs? Optimization of sampling strategy?

4E Which accompanying measures should be undertaken in order to improve uptake of remotely sensed products for monitoring purposes, in developed as well as less developed countries?

- Education and Training? Citizen education and citizen science? Cooperation with industry, e.g. water suppliers?
- Cooperation with non-profit organisations and other international bodies (UNESCO)?
- What lessons did we learn and how can we improve for the coming years?