



# Water Quality Continuum Atmospheric Correction Workshop

Online Workshop

Date: 20 October 2022 13:00-18:00 CEST (UTC+2h)

## Scope

Within the H2020 Water-ForCE project a Roadmap will be developed for the water component of the future Copernicus services.

The signal of water is challengingly small in comparison to the atmosphere and for small to intermediate inland waters e.g. the adjacency effect forms a challenge. (IOCCG, 2018). Therefore atmospheric correction and adjacency effect correction are extremely important processing steps for deriving water-leaving reflectance and higher level water quality products.

## Objectives

- To present ongoing R&D project results on
  - atmospheric correction for inland and coastal waters
  - atmospheric correction validation with in situ data for inland and coastal waters
- To provide recommendations (incl. additional spectral bands) for atmospheric correction and validation for future Copernicus water quality products
- To prioritize recommendations

Recommendations will be included in the Water-ForCE Roadmap.

## Agenda

**Introduction** IIs Reusen (VITO) 5'

**Analysis Ready Data - Aquatic Reflectance**

**CEOS-ARD AR PFS** Presentation and recommendations by Daniela Gurlin 10'





## Atmospheric correction

**Atmospheric correction water and ACIX-Aqua (L8, S2, PRISMA)** Presentation and recommendations by Nima Pahlevan (NASA) **30'**

**Atmospheric correction water for hyperspectral satellites (EnMAP)** Presentation and recommendations by Thomas Heege (EOMAP) **15'**

**Adjacency correction** Presentations and recommendations by

Barbara Bulgarelli (JRC) **10'**

Francois Steinmetz (HYGEOS) **10'**

Alexandre Castagna (UGent)/Quinten Vanhellemont (RBINS) **10'**

Liesbeth De Keukelaere (VITO) **10'**

**Discussion 15'**

**BREAK 15'**

## Atmospheric correction validation with in situ data

**CCVS Optical sensors for inland and coastal waters** Presentation and recommendations by Martin Ligi (UTARTU) **15'**

**AERONET-OC** Presentation and recommendations by Giuseppe Zibordi (JRC) **15'**

**HYPERNETS** Presentation and recommendations by Kevin Ruddick (RBINS) **15'**

**MONOCLE** Presentation and recommendations by Stefan Simis (PML) **15'**

**CERTO** Presentation and recommendations by Francois Steinmetz (HYGEOS) **15'**

**Discussion 15'**

**BREAK 15'**

**Poll, prioritizing recommendations and further steps 40'**



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