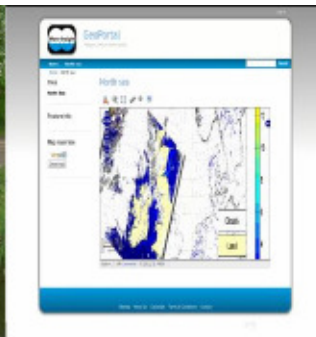




Water Insight:

operational water quality services

Marnix Laanen, Steef Peters, Arjen Vrieling,
Jeroen Wit, Ate Poortinga, **Annelies Hommersom**



Outline

→ Company

→ Services

- Harmful algae bloom bulletin
- GeoPortal
- WISP-3

→ Questions and more information

A larger version of the Water Insight logo, featuring the text "Water Insight" in white on a black background, with a blue wavy line below it.

Water Insight

Company

- Scientific background: IVM (VU university)
- Operational services
- Innovative remote sensing solutions



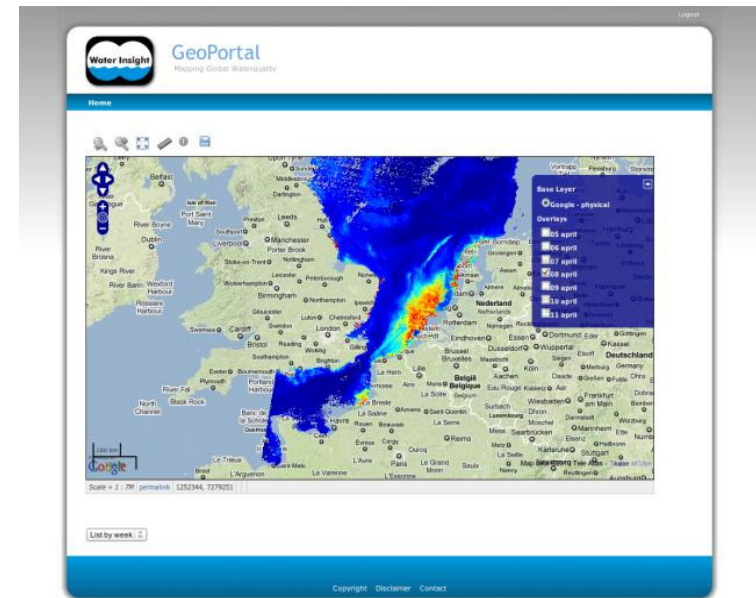
Harmful algae bloom bulletin

- Satellite (MERIS) based
- Prediction in combination with Deltares model
- North Sea



Geo Portal: water quality maps

- Chl, TSM, Phycocyanin, CDOM, transparency, Secchi, floating layers, error estimate
- Regional calibration
- Daily information



Geo Portal: precipitation & transpiration maps

- STREAM-hydrological model + satellite data
- Daily information
- (semi) Arid areas
- Predict droughts & floods



Geo Portal: application

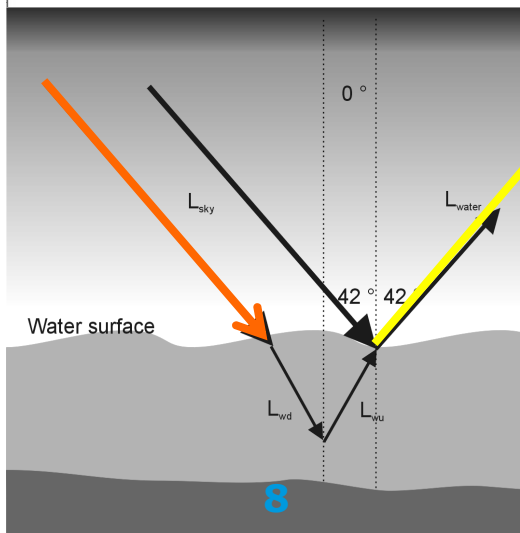
- Analyse water quality and hydrological maps
- Gain insight: time series, aggregated products
- Combine in-situ and satellite-based data



<http://geoportal.waterqualitymap.eu>

WISP-3: press the button and derive

- Chl-a
- Phycocyanin
- Transparency
- Floating layers
- TSM



Via web system:

- CDOM
- Secchi disk depth

WISP-3: application

- Ed, Lsky, Lwater
- Sunny and overcast
- Small water bodies
- Large concentrations ranges



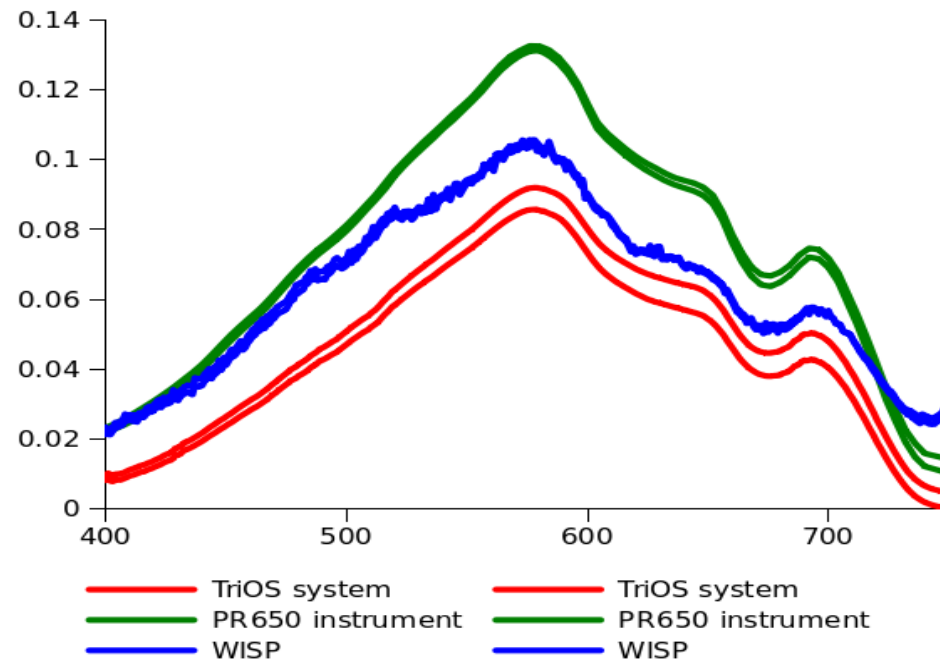
WISP-3: application

- Water Framework Directive
- Water supply reservoirs
- Swimming water quality
- Algal blooms
- Ecological restoration projects
- (ecological) Research
- Satellite validation (MERIS)



WISP-3: intercalibration

- Simultaneous measurements
- TriOS and PR650: well-known optical research instruments



Reflectances to concentrations

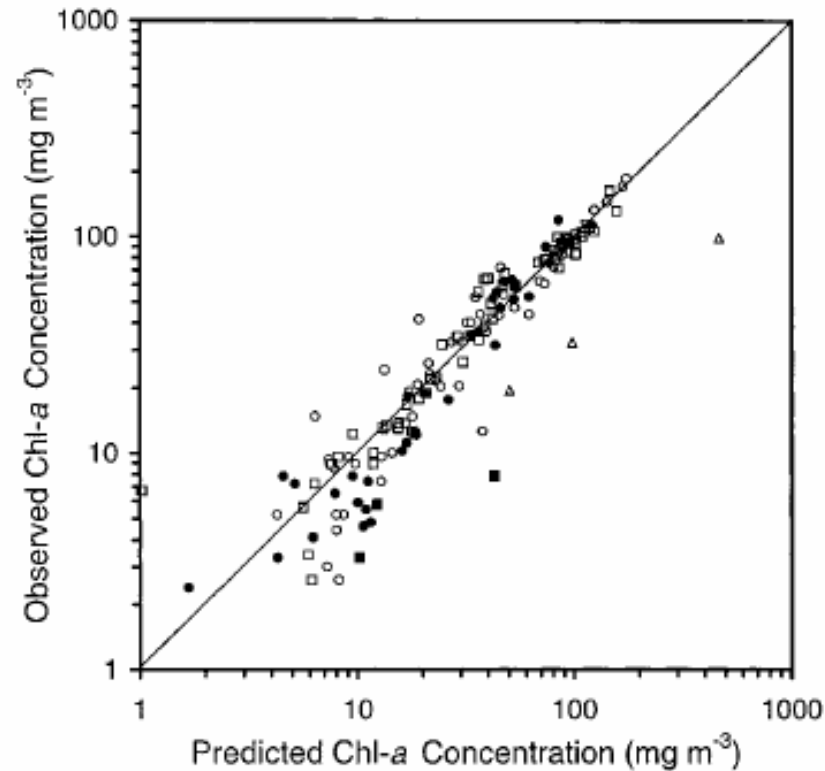


Figure: Gons, H.J., 1999. Optical Teledetection of Chlorophyll a in Turbid Inland Waters. *Environmental Science and Technology* 33: 1127-1132.

WISP On Tour!

- Demonstrate & validate the WISP-3
- Scientific experts & water managers
- Participate!

<http://wispon tour.waterinsight.nl>



Questions and more information

+31-(0)317-420004
info@waterinsight.nl
www.waterinsight.nl

- See our poster!
- Participate in WISP On Tour!



- WISP flyer
- <http://geoportal.waterqualitymap.eu>
- <http://wispontour.waterinsight.nl>