



The BELCOLOUR-2 project

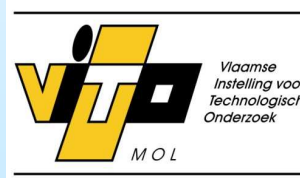
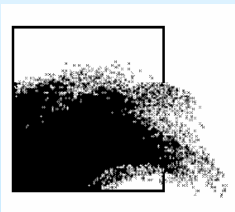
Optical remote sensing of marine and inland waters

Objectives:

1. Improve quality of products for marine/inland waters
2. Develop new products for apps inc aquaculture and air-sea CO₂ flux estimation

MUMM, ULB, VITO, ULg, LOV (Fr), CSIRO (Aus)

STEREO 2 thematic project (Dec 2007-11)





Med. Res. (1km) Satellite data for marine optics

	<u>Past (2002)</u>	<u>Present (2008)</u>	<u>Future (2011)</u>
Sensors	SeaWiFS	MODIS, MERIS	MODIS/NPOESS, MERIS/S-3, geost.
Frequency	Daily, 2-week delay	Daily, NRT	15 mins? NRT
Products	Chlorophyll a?	Chlorophyll a Total Susp Matt	Chl a, TSM, kPAR, phyto species, pCO2..
Multitemporal	Single images	Month, 3-month, 90 per cent, etc.	Continuous



Applications for marine optics

Past (2002)

No real applications

Users absent

Present (2008)

Maturing applications:

- Eutrophication assessment
- Ecosystem/sediment transport model support
- Cruise support
- Support for marine science, offshore engineering/EIS

Users starting to ask us

Switch from image to time series data

Future (2011)

New applications:

- Inland water monitoring
- CO₂ flux estimation
- Aquaculture support
- ...

Clouds are history!



Project structure

