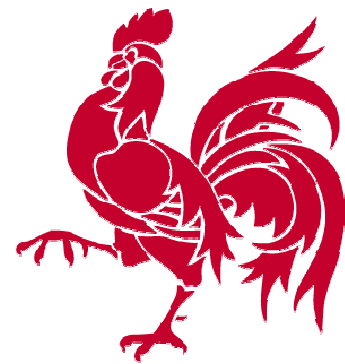




Monitoring of cyanobacteria in the Walloon region : state of play and perspectives



Wallonie



Service public
de **Wallonie**

Friday, December 10, 2010



DIRECTION GÉNÉRALE OPÉRATIONNELLE
DE L'AGRICULTURE, DES RESSOURCES NATURELLES ET DE L'ENVIRONNEMENT



Monitoring of cyanobacteria in the Walloon region : state of play and perspectives

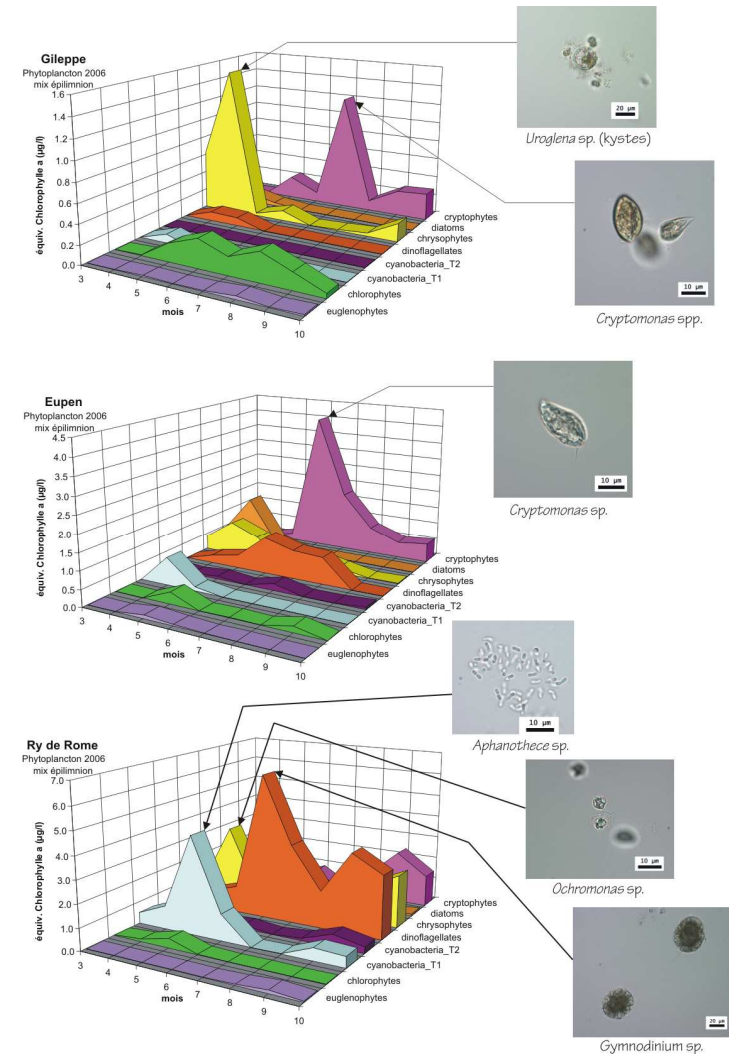
- **Characterization of water bodies**
- **Characterization of bathing waters**

- **Monitoring in bathing waters until 2010**
- **Monitoring improvement : indicator ? guideline ?**
- **Perspectives for 2011 monitoring in bathing waters**



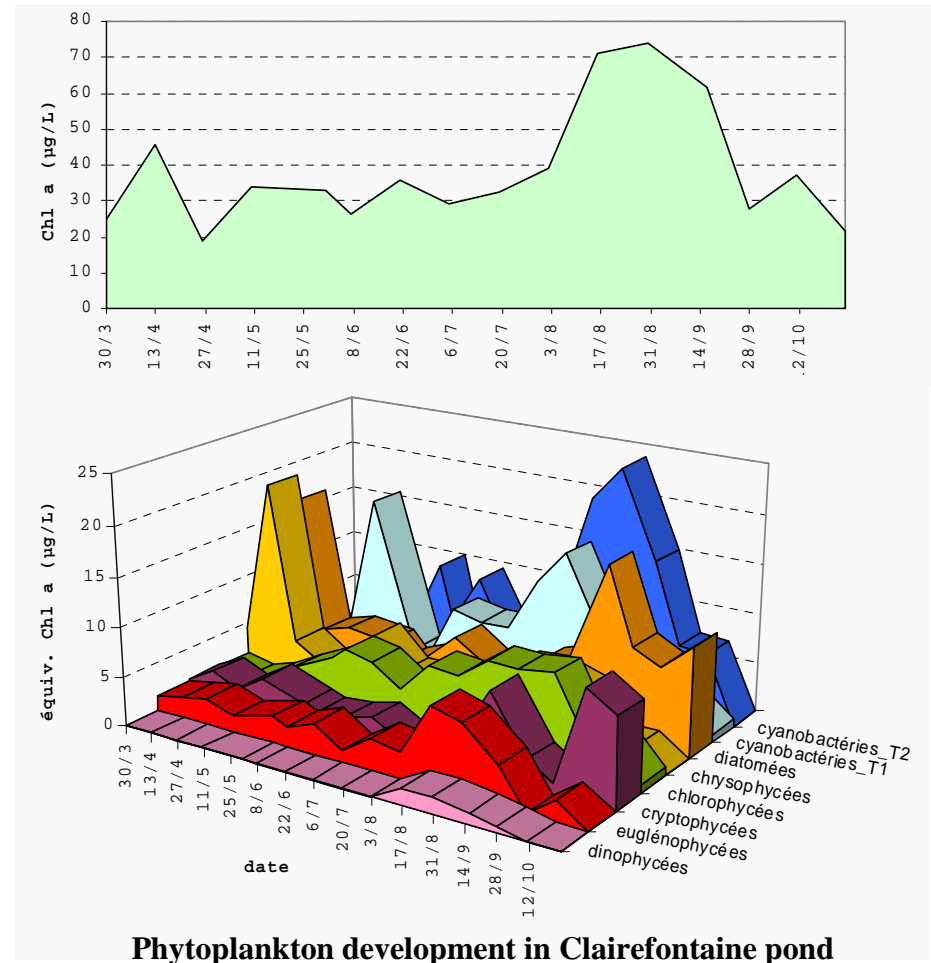
Characterization of water bodies

- **Ecologic status of reservoirs in the frame of Directive 2000/60/EC**
 - Studies by FUNDP (Namur) between 2006 and 2009
 - Analysis of phytoplankton (algal biomass, vertical repartition of biomass, repartition and evolution of algal groups,...)

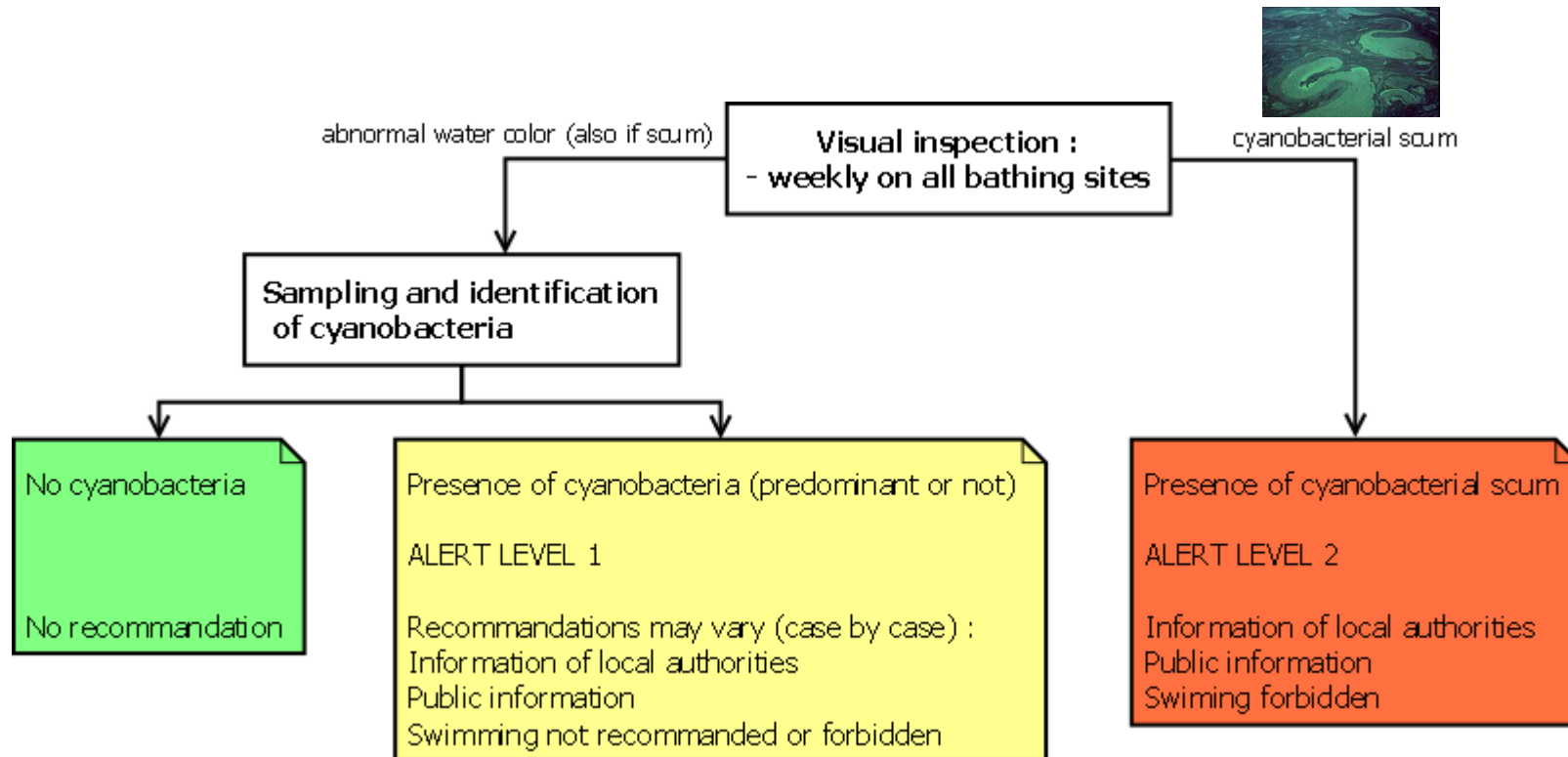


Characterization of bathing waters

- **Bathing waters profiles in the frame of Directive 2006/7/EC**
 - Study by FUNDP (Namur) in 2010
 - Potential for eutrophication and proliferation of cyanobacteria in bathing waters:
 - physico-chemical characterization
 - phosphorus load
 - phytoplankton development
 - trophic level
 - proliferation risk
 - Proposals for measures



Monitoring in bathing waters until 2010

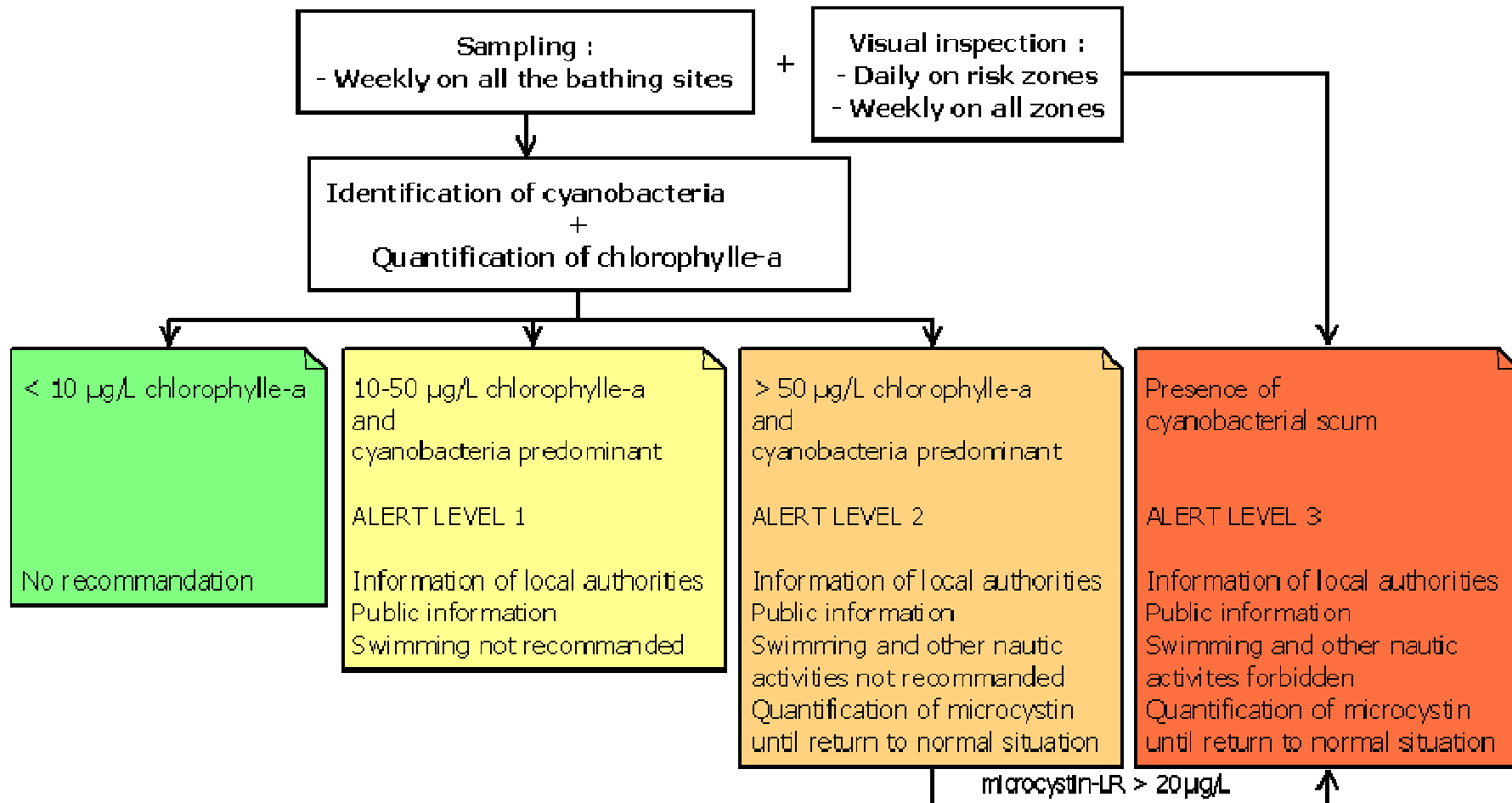


Monitoring improvement : indicator ? guideline ?

- **Lack of precise European guidelines**
 - Bathing water Directive does not provide guidelines as it does for fecal bacteria. Guidance for cyanobacteria is evasive : « appropriate monitoring », « adequate management measures »,...
- **WHO provisional guideline**
 - Guide on recreational waters : risk level based on cyanobacteria cell count or chlorophyll-a concentration (with cyanobacteria predominancy)
 - Guide on drinking water : provisional guideline for drinking waters (1 µg/L microcystin-LR)



Perspectives for 2011 monitoring in bathing waters





Thank you !



DIRECTION GÉNÉRALE OPÉRATIONNELLE
DE L'AGRICULTURE, DES RESSOURCES NATURELLES ET DE L'ENVIRONNEMENT

8



Wallonie



Service public
de Wallonie