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Areas of expertise

My research interest is in ecology of microorganisms in freshwaters. I graduated in Botany at University of Liège, Belgium, I began my research career with a PhD on the ecology of benthic diatoms in lowland rivers and their use for monitoring water quality. In the beginning of the 1980s, I became involved in research on potamoplankton, in the framework of impact assessment of nuclear plants on the R. Meuse. This is when I began collaborating with a team of modellers and discovered these techniques.

In 1986, I moved to University of Namur and began teaching biology and ecology of plants, while pursuing my research in potamoplankton. Later on I got involved in research on African lakes, with the supervision of a PhD in lake Muhazi, Rwanda, and with a first "discovery" of Lake Kivu in 1990. In 1996, I did a sabbatical at University of Wisconsin, Madison, where I learned everything on HPLC analysis of pigments.

The 2000s began with a research program on Lake Tanganyika and the coordination of the CLIMLAKE project, involving collaboration of the Belgian teams with African teams. At the same time, I went back to Lake Kivu and we started studying this lake. That's where our interest for picoplankton and heterotrophic protists, and the microbial loop, developed, with several projects carried out with my graduate and PhD students.

I am still active at University of Liège, in the Chemical Oceanography Unit led by A.V. Borges, who is known internationally for his work on greenhouse gasses emissions, both from marine and freshwater environments.

https://www.co2.uliege.be/cms/c_5622303/en/co2. Ongoing research is on ecology of great tropical lakes (e.g. Lake Edward, Lake Victoria, Lake Mai-Ndombe, Lake Albert), in collaboration with teams from Belgium and abroad.

My expertise in algal ecology and biological assessment of water quality is still useful for the determination of the ecological status of water bodies, notably in the context of monitoring cyanobacteria blooms, of stream restoration and of ecological impact of power plants.

Since I was a young boy, I have been fishing, mainly in rivers, using different techniques, from the worm to the fly, but I have specialised in fly-fishing since the 1970s: I tie flies and cast nymphs and dry flies in running waters.

Projects

B-BLOOMS: Algal blooms: emerging problem for health and sustainable use of surface waters

DESCY, J.-P. (PI), GOSSELAIN, V. (PI) & LEPORCQ, B. (Technician)
1/04/03 → 31/10/06

FRFC: Analyse des communautés bactériennes en milieu lacustre : relations entre diversité génétique et activité

DESCY, J.-P. (PI)
1/06/09 → 1/06/11

IBD: Application of the Diatom Biological Index (IBD) to water quality evaluation networks in Wallonia

DESCY, J.-P. (PI) & Fauville, C. (Researcher)
1/09/98 → 1/09/00

LABORELEC: Assessment of the effect of climate change on the River Meuse

DESCY, J.-P. (PI) & VIROUX, L. (Researcher)
1/01/05 → 31/12/05

BELLA: Belgian cluster on lake research in the framework of global climate change

DESCY, J.-P. (PI) & GOSSELAIN, V. (Researcher)
1/01/05 → 31/12/07

Biological baseline of Lake Kivu,

DESCY, J.-P. (Col)
1/01/12 → 31/12/14

Caractérisation complémentaire des masses d'eau dont le bon état dépend d'interactions entre les eaux de surface et les eaux souterraines (ESO-ESU) - Convention de collaboration

DESCY, J.-P. (PI)
1/04/13 → ...

CAKI: Carbon and nutrient cycles in Lake Kivu

DESCY, J.-P. (PI), DARCHAMBEAU, F. (Researcher) & LEPORCQ, B. (Technician)
16/04/07 → 31/12/10

CLIMLAKE: Climate variability as recorded in lake Tanganyika

DESCY, J.-P. (PI)
1/01/02 → 31/10/05

Contribution to the drafting of a management plan for surface water quality in the Haine catchment

DESCY, J.-P. (PI)
1/01/99 → 31/12/02

Contribution to the study of the microbial food web in Lake Tanganyika

DESCY, J.-P. (PI) & PIRLOT, S. (Researcher)
30/09/01 → 30/03/06

MON - CIM: Coordination of the "monitoring" working group within the international Meuse commission (CIM)

DESCY, J.-P. (PI)
11/10/12 → 10/10/14

B-BLOOMS: Cyanobacterial blooms: toxicity, diversity, modelling and management

DESCY, J.-P. (Researcher), LEPORCQ, B. (Technician) & VERNIERS, G. (Researcher)
1/01/07 → 31/12/10

Development and standardisation of a biotic index based on diatoms in Wallonia

DESCY, J.-P. (PI), Fauville, C. (Researcher) & GOSSELAIN, V. (Researcher)
1/09/98 → 1/09/00

EAGLES: East African Great Lake ecosystem Sensitivity to changes (EAGLES)-Belspo

DESCY, J.-P. (PI), GRYSEELS, G. (Col), WAER, M. (Col), Rentier, B. (Col) & Van Cauwenberge, P. (Col)
15/12/10 → 31/03/15

Etablissement d'une typologie et d'une classification écologique des réservoirs wallons pour répondre aux exigences de la directive cadre 2000/60/CE sur l'eau

DESCY, J.-P. (PI) & PRETO DE MORAIS SARMENTO, H. M. (Researcher)
9/02/06 → 8/02/07

Etude du potentiel d'eutrophisation et de prolifération des cyanobactéries dans les eaux de baignade (lacs, étangs) en Région Wallonne et proposition de mesures à entreprendre

DESCY, J.-P. (PI) & Tabart, A. (PI)
1/01/10 → 1/01/11

Evaluation du potentiel écologique des réservoirs de barrage en Wallonie sur base de l'étude du phytoplancton - campagne 2009

DESCY, J.-P. (PI)

1/01/09 → 1/01/10

FRFC: Fluorimeters

DESCY, J.-P. (PI)
1/06/08 → 1/06/10

Groundwater quality characterization using macro-invertebrates

DESCY, J.-P. (PI), BONNIVER, I. (Researcher) & Hallet, V. (Researcher)
1/09/04 → 1/09/05

Impacts of epilimnetic metazooplankton on recycling and sedimentation of carbon, nitrogen and phosphorus in a pelagic stratified ecosystem

DESCY, J.-P. (PI), Micha, J.-C. (PI) & DARCHAMBEAU, F. (Researcher)
1/01/97 → 31/08/03

FRFC: Implication des accumulations de litière de posidonies et de leurs communautés microbiennes et détritivores dans le cycle du carbone

DESCY, J.-P. (PI)
1/06/09 → 1/06/12

PIRENE: Integrated Research Program on Environment and Water : characterization of ecological quality of surface water and part of riparian zones (RW)

DESCY, J.-P. (PI), Fauville, C. (Researcher) & GOSSELAIN, V. (Researcher)
1/11/00 → 31/12/04

OBSTACLES: Inventaire complet des obstacles à la libre circulation des poissons sur l'ensemble des cours d'eau du bassin hydrographique de la Dendre et de la Senne, la Grande Gette et la Petite Gette

DESCY, J.-P. (Col)
1/01/10 → ...

inventory

DESCY, J.-P. (PI)
1/05/06 → 14/12/06

KIVUWATT: KivuWatt Plankton Monitoring

DESCY, J.-P. (Col)
1/09/12 → 31/03/13

Lake Kivu phytoplankton

DESCY, J.-P. (PI) & PRETO DE MORAIS SARMENTO, H. M. (Researcher)
15/09/02 → 30/09/06

Microbial diversity and ecological processes in Lake Kivu, Eastern Africa

DESCY, J.-P. (PI)
1/01/11 → 31/12/13

Oxygen budget and biological processes in the regulated rivers Moselle et de la Sarre

DESCY, J.-P. (PI) & GOSSELAIN, V. (Researcher)
1/01/93 → 31/12/96

Picoplankton and key grazers in a large tropical lake (Lake Tanganyika, East Africa)

DESCY, J.-P. (PI) & TARBE, A.-L. (Researcher)
1/10/05 → 30/09/09

PAEQANN: Predicting Aquatic Ecosystem Quality using Artificial Neural Networks: Impact of Environmental characteristics on the Structure of Aquatic Communities (Algae, Benthic and Fish Fauna) (EVK1-CT1999- 00026)

DESCY, J.-P. (PI) & GOSSELAIN, V. (Researcher)

1/03/00 → 28/02/03

PNSB II: Production de bactéries pourpres

DESCY, J.-P. (Col) & Marche, C. (Col)

1/09/13 → 1/09/15

PURPLE II: Production de bactéries pourpres (PNSB) et de Daphnies par consommation des PNSB

DESCY, J.-P. (Col) & Marche, C. (Col)

1/09/11 → 1/09/13

Projected system for structuring the information collected in the framework of various 'river contracts'

DESCY, J.-P. (PI)

1/06/00 → 31/12/01

CLIMFISH: PSF STEREO : CLIMFISH

DESCY, J.-P. (PI)

1/01/04 → 31/12/06

GENOSCOPE: Sequencing the genome de novo of the bdelloid rotifer species Adineta vaga.

DESCY, J.-P. (PI), Van Doninck, K. (PI) & Pontarotti, P. A. (PI)

1/01/09 → 31/12/13

Study and modelling of phytoplankton in different streams of the Rhine-Meuse basin (France)

DESCY, J.-P. (PI)

1/05/96 → 1/05/99

Study of metazooplankton dynamics in Lake Kivu (East Africa)

DESCY, J.-P. (PI) & Micha, J.-C. (PI)

1/09/02 → 30/10/06

Study of microbial biomass and diversity in Lake Tanganyika FRFC project 2.4.580.05 F

DESCY, J.-P. (PI) & STENUITE, S. (Researcher)

1/01/05 → 31/12/07

Study of phytoplankton grazing by small zooplankton in the Meuse and Moselle rivers

DESCY, J.-P. (PI) & GOSSELAIN, V. (Researcher)

1/05/94 → 16/11/98

Study of picoplankton of a large African lake

DESCY, J.-P. (PI) & STENUITE, S. (Researcher)

30/09/03 → 1/01/09

Study of the biological quality of wallon rivers on the basis of Diatom Biotic indices

DESCY, J.-P. (PI), Fauville, C. (Researcher) & GOSSELAIN, V. (Researcher)

1/09/98 → 31/08/10

Study of the diet of Limnithrissa miodon (Boulenger, 1906) and of nutritional quality within the food web of lake Kivu

DESCY, J.-P. (PI), DARCHAMBEAU, F. (Researcher) & MASILYA MULUNGULA, P. (Researcher)

1/09/06 → 31/08/10

ECOSYKI: Study of the functioning of Lake Kivu ecosystem for its sustainable management

DESCY, J.-P. (PI), Nyina-Wamwiza, L. (PI) & DARCHAMBEAU, F. (Researcher)

1/06/04 → 31/05/09

Study of the seasonal and longitudinal dynamics of zooplankton in large lowland rivers : demography and modelling

DESCY, J.-P. (PI) & VIROUX, L. (Researcher)

1/10/95 → 10/01/00

Study on trophic relationships within river plankton: the microbial loop

DESCY, J.-P. (PI)

1/01/99 → 31/12/02

ENCODAGE RIVIERE: Technical assistance for encoding data of water carts

DESCY, J.-P. (PI)

7/12/06 → 31/12/08

Transformations de la biogéochimie aquatique dans le Fleuve Congo (TRANS-CONGO)

DESCY, J.-P. (Col) & Borges, A. (PI)

1/07/13 → 30/06/15

Use of chlorophyll and carotenoid pigments as biomarkers : algal pigments as biomarkers of phytoplankton composition

DESCY, J.-P. (PI)

1/01/99 → ...

WALPHY: WALPHY : Conception d'un outil d'aide à la décision pour la restauration hydro-morphologique des masses d'eau en Région Wallonne

DESCY, J.-P. (PI)

1/01/09 → 31/03/16

Research output

The Meuse River basin

Descy, J. P., Latli, A., Roland, F., Borges, A. V., Lambert, T., Morana, C., Kestemont, P., Joaquim-Justo, C., Everbecq, E., Usseglio-Polatera, P. H., Beisel, J. N., Verniers, G. & Pigneur, L. M., 1 Jan 2021, *Rivers of Europe*. Elsevier, p. 225-289 65 p.

Long-term trends in trait structure of riverine communities facing predation risk increase and trophic resource decline

Latli, A., Descy, J. P., Mondy, C. P., Floury, M., Viroux, L., Otjacques, W., Marescaux, J., Depiereux, E., Ovidio, M., Usseglio-Polatera, P. & Kestemont, P., 29 Nov 2017, In: *Ecological applications*. 27, 8, p. 2458-2474 17 p.

Assessing filtration rates of exotic bivalves: dependence on algae concentration and seasonal factors

Marescaux, J., Falisse, É., Lorquet, J., Van Doninck, K., BEISEL, J.-N. & Descy, J.-P., 15 Apr 2016, (E-pub ahead of print) In: *Hydrobiologia*.

Pelagic photoferrotrophy and iron cycling in a modern ferruginous basin

Llirós, M., Garcíá-Armisen, T., Darchambeau, F., Morana, C., Triadó-Margarit, X., Inceoğlu, Ö., Borrego, C. M., Bouillon, S., Servais, P., Borges, A. V., Descy, J. P., Canfield, D. E. & Crowe, S. A., 8 Sept 2015, In: *Scientific Reports*. 5, 13803.

Biogeochemistry of a large and deep tropical lake (Lake Kivu, East Africa Insights from a stable isotope study covering an annual cycle

Morana, C., Darchambeau, F., Roland, F. A. E., Borges, A. V., Muvundja, F., Kelemen, Z., Masilya, P., Descy, J. P. & Bouillon, S., 19 Aug 2015, In: *Biogeosciences*. 12, 16, p. 4953-4963 11 p.

Comparison of ecological state/potential assessment of 19 Bulgarian water bodies based on macrophytes and phytoplankton (2011 2012)

Stoyneva, M., Traykov, I., Tosheva, A., Uzunov, B., Zidarova, R. & Descy, J. P., 21 Jul 2015, In: *Biotechnology and Biotechnological Equipment*. 29, p. S33-S38

Vertical Distribution of Functional Potential and Active Microbial Communities in Meromictic Lake Kivu

Inceoğlu, Ö., Lirós, M., Crowe, S. A., García-Armisen, T., Morana, C., Darchambeau, F., Borges, A. V., Descy, J. P. & Servais, P., 26 Apr 2015, In: *Aquatic Microbial Ecology*.

Methanotrophy within the water column of a large meromictic tropical lake (Lake Kivu, East Africa)

Morana, C., Borges, A. V., Roland, F. A. E., Darchambeau, F., Descy, J.-P. & Bouillon, S., 7 Apr 2015, In: *Biogeosciences*. 12, 7, p. 2077-2088 12 p.

Acquisition des données pour l'interprétation de la pression associée des prélèvements d'eau souterraine sur l'état et le fonctionnement écologique des cours d'eau

Descy, J.-P., Viroux, L., Latli, A. & Leporcq, B., 27 Mar 2015, HGE-ULg. 31 p. (Caractérisation complémentaire des masses d'eau dont le bon état dépend d'interactions entre les eaux de surface et les eaux souterraines)

Distribution of Bacteria and Archaea in meromictic tropical Lake Kivu (Africa)

Inceoğlu, Ö., Lliros Dupre, M., García-Armisen, T., Crowe, S. A., Michiels, C., Darchambeau, F., Descy, J. P. & Servais, P., 2015, In: *Aquatic Microbial Ecology*. 74, 3, p. 215-233 19 p.

East African Great Lake Ecosystem Sensitivity to changes: Final Report

Descy, J.-P. & Luc André, Claire Delvaux, Laurence Monin, Steven Bouillon, Cédric Morana, Alberto V. Borges, François Darchambeau, Fleur Roland, Evelien Van de Vyver, Elie Verleyen, Claas Steigüber, Wim Vyverman, Yves Cornet, Nadia Poncelet, Igor Tomazic, Nicole van Lipzig, Wim Thiery, Jean Guillard, David Docquier, Niels Souverijns, Pascal Isumbusho, Parfait Yongabo, Laetitia Nyinawamwiza, 2015, Brussels: Belgium Science Policy . 151 p. (Research Programme Science for a Sustainable Development)

Bacterial community composition in three freshwater reservoirs of different alkalinity and trophic status

Lirós, M., Inceoğlu, Ö., García-Armisen, T., Anzil, A., Leporcq, B., Pigneur, L. M., Viroux, L., Darchambeau, F., Descy, J.-P. & Servais, P., 26 Dec 2014, In: *PLoS ONE*. 9, 12, p. e116145 e116145.

Carbon cycling of Lake Kivu (East Africa): Net autotrophy in the epilimnion and emission of CO₂ to the atmosphere sustained by geogenic inputs

Borges, A. V., Morana, C., Bouillon, S., Servais, P., Descy, J. P. & Darchambeau, F., 14 Oct 2014, In: *PLoS ONE*. 9, 10, e109500.

Decadal trends and common dynamics of the bio-optical and thermal characteristics of the African Great Lakes

Loiselle, S., Cózar, A., Adgo, E., Ballatore, T., Chavula, G., Descy, J.-P., Harper, D. M., Kansime, F., Kimirei, I., Langenberg, V., Ma, R., Sarmento, H., Odada, E. & Descy, J.-P., 3 Apr 2014, In: *PLoS ONE*. 9, 4, e93656.

Impact of invasive Asian clams, *Corbicula* spp., on a large river ecosystem

Pigneur, L.-M., Falisse, E., Roland, K., Everbecq, E., Deliège, J. F., Smits, J. S., Van Doninck, K. & Descy, J.-P., 1 Mar 2014, In: *Freshwater Biology*. 59, 3, p. 573-583 11 p.

Primary production in a tropical large lake: The role of phytoplankton composition

Darchambeau, F., Sarmento, H. & Descy, J. P., 1 Mar 2014, In: *Science of the Total Environment*. 473-474, 178-188, p. 178-188 11 p.

Understanding the performance of the FLake model over two African Great Lakes

Thiery, W., Martynov, A., Darchambeau, F., Descy, J. P., Plisnier, P. D., Sushama, L. & Van Lipzig, N. P. M., 18 Feb 2014 , In: *Geoscientific Model Development*. 7, 1, p. 317-337 21 p.

Production of dissolved organic matter by phytoplankton and its uptake by heterotrophic prokaryotes in large tropical lakes

Morana, C., Sarmento, H., Descy, J.-P., Gasol, J. M., Borges, A. V., Bouillon, S., Darchambeau, F. & Descy, J.-P., 1 Jan 2014, In: *Limnology and Oceanography*. 59, 4, p. 1364-1375 12 p.

Climate change in tropical fresh waters (comment on the paper 'Plankton dynamics under different climatic conditions in space and time' by de Senerpont Domis et al.)

Preto de Morais Sarmiento, H., Amado, A. M. & Descy, J.-P., 1 Oct 2013, In: *Freshwater Biology*. 58, 10, p. 2208-2210 3 p.

Establishing expectations for pan-European diatom based ecological status assessments

Kelly, M. G., Gómez-Rodríguez, C., Pardo, I., Kahlert, M., Almeida, S. F. P., Bennett, C., Bottin, M., Delmas, F., Rosebery, J., Descy, J.-P., Dörflinger, G., Kennedy, B., Marvan, P., Opatrilova, L., Pfister, P., Schneider, S. & Vilbaste, S., 1 Sept 2012, In: *Ecological Indicators*. 20, p. 177-186 10 p.

Is the fishery of the introduced Tanganyika sardine (*Limnothrissa miodon*) in Lake Kivu (East Africa) sustainable?

Guillard, J., Darchambeau, F., Masilya Mulungula, P. & Descy, J.-P., 1 Sept 2012, In: *Journal of Great Lakes Research*. 38, 3, p. 524-533 10 p.

Phytoplankton of the River Loire, France: A biodiversity and modelling study

Descy, J.-P., Leitao, M., Everbecq, E., Delige, J.-F. & Smitz, J. S., 1 Feb 2012, In: *Journal of Plankton Research*. 34, 2, p. 120-135 16 p.

The queer Tetraëdron minimum from Lake Kivu (Eastern Africa): Is it a result of a human impact?

Stoyneva, M. P., Descy, J.-P., Balagué, V., Sarmiento, H., Compère, P. & Leitao, M., 1 Jan 2012, In: *Hydrobiologia*. 698, 1, p. 273-283 11 p.

Lake Kivu: Limnology and biogeochemistry of a tropical great lake

Descy, J.-P., Darchambeau, F. & Schmid, M., 2012, Dordrecht: Springer. 190 p. (Aquatic Ecology Series)

Lake Kivu: past and present

Descy, J.-P., Darchambeau, F. & Schmid, M., 2012, *Lake Kivu: Limnology and biogeochemistry of a tropical great lake*. Descy, J.-P., Darchambeau, F. & Schmid, M. (eds.). Springer, p. 1-11 (Aquatic Ecology Series; vol. 5).

Lake Kivu Research: Conclusions and Perspectives

Descy, J.-P., Darchambeau, F. & Schmid, M., 2012, *Lake Kivu: Limnology and biogeochemistry of a tropical great lake*. Descy, J.-P., Darchambeau, F. & Schmid, M. (eds.). Springer, p. 181-190 (Aquatic Ecology Series; vol. 5).

Microbial Ecology of Lake Kivu

Llirós Dupre, M., Descy, J.-P., Libert, X., Morana, C., Schmitz, M., Wimba, L., Nzavuga-Izere, A., Gracia-Armisen, T., Borrego, C., Servais, P. & Darchambeau, F., 2012, *Lake Kivu: Limnology and biogeochemistry of a tropical great lake*. Descy, J.-P., Darchambeau, F. & Schmid, M. (eds.). Springer, p. 85-105 (Aquatic Ecology Series; vol. 5).

Phytoplankton of Lake Kivu

Preto de Morais Sarmiento, H., Darchambeau, F. & Descy, J.-P., 2012, *Lake Kivu: Limnology and biogeochemistry of a tropical great lake*. Descy, J.-P., Darchambeau, F. & Schmid, M. (eds.). Springer, p. 67-83 (Aquatic Ecology Series; vol. 5).

Variability of Carbon Dioxide and Methane in the Epilimnion of Lake Kivu

Borges, A. V., Bouillon, S., Abril, G., Delille, B., Poirier, D., Commarieu, M.-V., Lepoint, G., Morana, C., Champenois, W., Servais, P., Descy, J.-P. & Darchambeau, F., 2012, *Lake Kivu: Limnology and biogeochemistry of a tropical great lake*. Descy, J.-P., Darchambeau, F. & M. S. (eds.). Springer, p. 47-66 (Aquatic Ecology Series; vol. 5).

Zooplankton of Lake Kivu

Darchambeau, F., Isumbisho Mwapu, P. & Descy, J.-P., 2012, *Lake Kivu: Limnology and biogeochemistry of a tropical great lake*. Descy, J.-P., Darchambeau, F. & Schmid, M. (eds.). Springer, p. 107-126 (Aquatic Ecology Series; vol. 5).

Diet overlap between the newly introduced *Lamprichthys tanganicus* and the Tanganyika sardine in Lake Kivu, Eastern Africa

Masilya Mulungula, P., Darchambeau, F., Descy, J.-P. & Isumbisho, M., 1 Oct 2011, In: *Hydrobiologia*. 675, 1, p. 75-86 12 p.

Protist Herbivory: A Key Pathway in the Pelagic Food Web of Lake Tanganyika

Tarbe, A.-L., Stenuite, S., Pirlot, S., Descy, J.-P., Unrein, F., Sarmento, H. & Sinyinza, D., 1 Aug 2011, In: Aquatic Microbial Ecology. 62, 2, p. 314-323 10 p.

La Meuse transparente, un signe d'amélioration ?

Descy, J.-P. & Pigneur, L.-M., Jun 2011, In: Le pêcheur belge.

Prolonging the lifetime and activity of silica immobilised *Cyanidium caldarium*

Rooke, J. C., Léonard, A., Meunier, C. F., Su, B. L., Vandoorne, B., Cambier, P., Descy, J.-P. & Sarmento, H., 1 Apr 2011, In: Journal of colloid and interface science. 356, 1, p. 159-164 6 p.

Novel photosynthetic CO₂ bioconverter based on green algae entrapped in low-sodium silica gels

Rooke, J. C., Léonard, A., Meunier, C. F., Su, B. L., Descy, J.-P. & Sarmento, H., 28 Jan 2011, In: Journal of Materials Chemistry. 21, 4, p. 951-959 9 p.

Molecular characterisation of the small-eukaryote community in a tropical Great Lake (Lake Tanganyika, East Africa)

Tarbe, A.-L., Stenuite, S., Descy, J.-P., Balagué, V., Massana, R. & Sinyinza, D., 19 Jan 2011, In: Aquatic Microbial Ecology. 62, 2, p. 177-190 14 p.

Diffusive methane emissions to the atmosphere from Lake Kivu (Eastern Africa)

Borges, A. V., Delille, B., Darchambeau, F., Abril, G. & Descy, J.-P., 1 Jan 2011, In: Journal of Geophysical Research G: Biogeosciences. 116, 3

Phylogeny and androgenesis in the invasive *Corbicula* clams (*Bivalvia*, *Corbiculidae*) in Western Europe

Pigneur, L.-M., Marescaux, J., Roland, K., Etoundi, E., Descy, J.-P. & Van Doninck, K., 2011, In: BMC Evolutionary Biology. 11, 147, p. 147

Strong effects of amoebae grazing on the biomass and genetic structure of a *Microcystis* bloom (*Cyanobacteria*)

Van Wichelen, J., van Gremberghe, I., Vanormelingen, P., Debeer, A.-E., Vyverman, W., Leporcq, B., Descy, J.-P., Menzel, D. & Codd, G. A., 1 Oct 2010, In: Applied and Environmental Microbiology. 76, 10, p. 2797-2813 17 p.

Vertical distribution of ammonia-oxidizing crenarchaeota and methanogens in the epilimnetic waters of Lake Kivu (Rwanda-Democratic Republic of the Congo)

Llirós, M., Gich, F., Plasencia, A., Borrego, C., Darchambeau, F., Descy, J.-P., Auguet, J.-C. & Casamayor, E. O., 1 Oct 2010, In: Applied and Environmental Microbiology. 76, 20, p. 6853-6863 11 p.

Hybrid photosynthetic materials derived from microalgae *Cyanidium caldarium* encapsulated within silica gel

Rooke, J. C., Léonard, A., Meunier, C. F., Su, B. L., Sarmento, H. & Descy, J.-P., 15 Apr 2010, In: Journal of colloid and interface science. 344, 2, p. 348-352 5 p.

Optimized extraction of daily bio-optical time series derived from MODIS/Aqua imagery for Lake Tanganyika, Africa

Horion, S., Cornet, Y., Bergamino, N., Loiselle, S. A., Stenuite, S., Descy, J.-P. & Plisnier, P.-D., 15 Apr 2010, In: Remote Sensing of Environment. 114, 4, p. 781-791 11 p.

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