

Jean-Pierre DESCY

Unité de recherche en biologie environnementale et évolutive



Domaines de compétence

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.

Projets

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

DESCY, J.

1/06/09 → 1/06/11

IBD: Application de l'Indice Biologique Diatomées (IBD) aux réseaux de mesure de qualité en Région wallonne

DESCY, J. & Fauville, C.

1/09/98 → 1/09/00

ENCODAGE RIVIERE: Assistance technique à l'encodage des fiches d'inventaire de terrain des contrats de rivière et production de cartes des dégradations prioritaires des cours d'eau

DESCY, J.

7/12/06 → 31/12/08

Bilan oxygène et processus biologiques de la Moselle et de la Sarre

DESCY, J. & GOSSELAIN, V.

1/01/93 → 31/12/96

Biological baseline of Lake Kivu,

DESCY, J.

1/01/12 → 31/12/14

B-BLOOMS: Blooms algaux : problème émergent pour la santé et l'utilisation durable des eaux de surface

DESCY, J., GOSSELAIN, V. & LEPORCQ, B.

1/04/03 → 31/10/06

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.

1/04/13 → ...

Caractérisation de la qualité des eaux karstiques à partir des macroinvertébrés

DESCY, J., BONNIVER, I. & Hallet, V.

1/09/04 → 1/09/05

Contribution à l'élaboration d'un plan de gestion pour la qualité des eaux de surface du bassin de la Haine

DESCY, J.

1/01/99 → 31/12/02

MON - CIM: Coordination du groupe de travail "monitoring" au sein de la commission internationale pour la protection de la Meuse (CIM)

DESCY, J.

11/10/12 → 10/10/14

CAKI: Cycle du carbone et des nutriments au Lac Kivu

DESCY, J., DARCHAMBEAU, F. & LEPORCQ, B.

16/04/07 → 31/12/10

Développement et normalisation d'un indice biotique diatomées en Wallonie

DESCY, J., Fauville, C. & GOSSELAIN, V.

1/09/98 → 1/09/00

Diversité microbienne et processus écologiques au Lac Kivu, Afrique de l'Est

DESCY, J.

1/01/11 → 31/12/13

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

DESCY, J., GRYSEELS, G., WAER, M., Rentier, B. & Van Cauwenberge, P.

15/12/10 → 31/03/15

Ecologie du zooplancton du lac Kivu

DESCY, J. & Micha, J.

1/09/02 → 30/10/06

Encodage en vue d'exploitation des fiches des inventaires de terrain réalisés dans le cadre des contrats de rivière dans la base de données créée à cet effet, géoréférencement des points inventoriés sur support informatique et production de cartes

DESCY, J.

1/05/06 → 14/12/06

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. & PRETO DE MORAIS SARMENTO, H. M.

9/02/06 → 8/02/07

Etude de la biomasse et de la diversité microbiennes au Lac Tanganyika - Projet FRFC 2.4.580.05 F

DESCY, J. & STENUITE, S.

1/01/05 → 31/12/07

Etude de la dynamique saisonnière et longitudinale du zooplancton en milieu fluvial : démographie et modélisation

DESCY, J. & VIROUX, L.

1/10/95 → 10/01/00

Etude de l'alimentation de *Limnothrissa miodon* (Boulenger, 1906) et de la qualité nutritionnelle au sein du réseau trophique du Lac Kivu

DESCY, J., DARCHAMBEAU, F. & MASILYA MULUNGULA, P.

1/09/06 → 31/08/10

Etude des relations trophiques au sein du plancton en milieu fluvial: la boucle microbienne

DESCY, J.

1/01/99 → 31/12/02

Etude du broutage (grazing) du phytoplancton par le microzooplancton fluvial, en Meuse et en Moselle

DESCY, J. & GOSSELAIN, V.

1/05/94 → 16/11/98

ECOSYKI: Etude du fonctionnement de l'écosystème du lac Kivu en vue de son exploitation durable

DESCY, J., Nyina-Wamwiza, L. & DARCHAMBEAU, F.

1/06/04 → 31/05/09

Etude du picoplancton du lac Tanganyika : nature, biomasse et production

DESCY, J. & STENUITE, S.

30/09/03 → 1/01/09

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. & Tabart, A.

1/01/10 → 1/01/11

Etude du rôle du mézozoplancton herbivore sur le recyclage et la sédimentation du carbone, de l'azote et du phosphore dans un écosystème pélagique stratifié

DESCY, J., Micha, J. & DARCHAMBEAU, F.

1/01/97 → 31/08/03

Etude et modélisation du phytobenthos dans les différents types de rivières du bassin Rhin-Meuse (France)

DESCY, J.

1/05/96 → 1/05/99

Evaluation de la qualité biologique des rivières wallonnes sur base des Indices Biologiques diatomées

DESCY, J., Fauville, C. & GOSSELAIN, V.

1/09/98 → 31/08/10

LABORELEC: Evaluation de l'effet du changement climatique sur le fleuve Meuse

DESCY, J. & VIROUX, L.

1/01/05 → 31/12/05

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

DESCY, J.

1/01/09 → 1/01/10

FRFC: Fluorimètres

DESCY, J.

1/06/08 → 1/06/10

CLIMFISH: Impact du changement climatique sur le développement soutenu des pêches au lac Tanganyika

DESCY, J.

1/01/04 → 31/12/06

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

DESCY, J.

1/06/09 → 1/06/12

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.

1/01/10 → ...

KIVUWATT: KivuWatt Plankton Monitoring

DESCY, J.

1/09/12 → 31/03/13

Le bactérioplancton du lac Tanganyika : biomasse, production, et devenir trophique

DESCY, J. & PIRLOT, S.

30/09/01 → 30/03/06

CLIMLAKE: Le lac Tanganyika, enregistreur de la variabilité climatique

DESCY, J.

1/01/02 → 31/10/05

Le Phytoplancton du Lac Kivu

DESCY, J. & PRETO DE MORAIS SARMENTO, H. M.

15/09/02 → 30/09/06

Le picoplancton et ses brouteurs-clés au Lac Tanganyika, Afrique de l'Est

DESCY, J. & TARBE, A.

1/10/05 → 30/09/09

PAEQANN: Prédiction de la qualité des écosystèmes aquatiques par l'utilisation de réseaux de neurones artificiels: impact des caractéristiques environnementales sur la structure des communautés aquatiques (algues, macrorinvertébrés et poissons) (EVK1-CT1999- 00026)

DESCY, J. & GOSSELAIN, V.

1/03/00 → 28/02/03

PNSB II: Production de bactéries pourpres

DESCY, J. & Marche, C.

1/09/13 → 1/09/15

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

DESCY, J. & Marche, C.

1/09/11 → 1/09/13

PIRENE: Programme Intégré de Recherche Environnement ' Eau (PIRENE) ' caractérisation de la qualité écologique des eaux de surface et rôle des bandes riveraines (convention RW)

DESCY, J., Fauville, C. & GOSSELAIN, V.

1/11/00 → 31/12/04

Projet de mise en place d'un système de structuration de l'information acquise dans le cadre des contrats de rivière
DESCY, J.
1/06/00 → 31/12/01

GENOSCOPE: Projet de séquençage de novo du génome d'une espèce de rotifère bdelloïde, Adineta vaga.
DESCY, J., Van Doninck, K. & Pontarotti, P.
1/01/09 → 31/12/13

B-BLOOMS: Proliférations cyanobactériennes : toxicité, diversité, modélisation et gestion - www.bblooms.be
DESCY, J., LEPORCQ, B. & VERNIERS, G.
1/01/07 → 31/12/10

BELLA: Réseau belge de recherches lacustres dans le cadre du changement climatique global
DESCY, J. & GOSSELAIN, V.
1/01/05 → 31/12/07

Transformations de la biogéochimie aquatique dans le Fleuve Congo (TRANS-CONGO)
DESCY, J. & Borges, A.
1/07/13 → 30/06/15

Utilisation des pigments chlorophylliens et caroténoïdes comme biomarqueurs : les pigments algaux comme biomarqueurs de la composition du phytoplancton
DESCY, J.
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.
1/01/09 → 31/03/16

Résultats de recherche

Long-term impacts of nutrient control, climate change, and invasive clams on phytoplankton and cyanobacteria biomass in a large temperate river
Minaudo, C., Abonyi, A., Leitão, M., Lançon, A. M., Floury, M., Descy, J. P. & Moatar, F., 20 févr. 2021, Dans: Science of the Total Environment. 756, 144074.

Microcystis aeruginosa and M. wessenbergii Were the Primary Planktonic Microcystin Producers in Several Bulgarian Waterbodies (August 2019)
Stoyneva-Gärtner, M., Stefanova, K., DESCY, J-P., Uzunov, B., Radkova, M., Pavlova, V., Mitreva, M. & Gärtner, G., 1 janv. 2021, Dans: Applied Sciences (Switzerland). 11, 1, p. 1-20 20 p., 357.

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 janv. 2021, *Rivers of Europe*. Elsevier, p. 225-289 65 p.

The possible occurrence of iron-dependent anaerobic methane oxidation in an Archean Ocean analogue
Roland, F. A. E., Borges, A. V., Darchambeau, F., Llirós, M., Descy, J. P. & Morana, C., janv. 2021, Dans: Scientific Reports. 11, 1, 1597.

Cyanocystopsis kitagatae gen. et sp. nov. (Cyanoprokaryota/ Cyanobacteria) from the tropical lake Kitagata (Uganda, Africa)
Stoyneva-Gärtner, M. P., Gärtner, G., Uzunov, B., Descy, J. P. & Okello, W., 2021, Dans: *Wulfenia*. 28, p. 51-65 15 p.

MICROCYSTIS RŪŠYS IR TOKSINIAI JŲ KAMIENAI DEŠIMTIES VANDENS TELKINIŲ FITOPLANKTONE
BULGARIJOJE

Uzunov, B., Stefanova, K., Radkova, M., Descy, J. P., Gärtner, G. & Stoyneva-Gärtner, M., 2021, Dans: Botanica. 27, 1, p. 77-99 23 p.

Phytoplankton pigment analysis as a tool for monitoring a tropical great lake, Lake Kivu (East Africa)

Mudakikwa, E., Thiery, W., LATLI, ADRIEN., LEPORCQ, B., Rugema, E. & DESCY, J-P., 2021, Dans: Inland Waters. 11, 2, p. 223-233 11 p.

Diversity and ecology of phytoplankton in Lake Edward (East Africa): Present status and long-term changes

Stoyneva-Gärtner, M. P., Morana, C., Borges, A. V., Okello, W., Bouillon, S., Deirmendjian, L., Lambert, T., Roland, F., Nankabirwa, A., Nabafu, E., Darchambeau, F. & Descy, J. P., août 2020, Dans: Journal of Great Lakes Research. 46, 4, p. 741-751 11 p.

Pilot application of drone observations and pigment marker detection by HPLC in studies of cyanobacterial harmful algal blooms in Bulgarian inland waters

Stoyneva-Gärtner, M. P., Uzunov, B. A., Descy, J. P., Gärtner, G., Draganova, P. H., Borisova, C. I., Pavlova, V. & Mitreva, M., 1 janv. 2020, Dans: Marine and Freshwater Research. 71, 5, p. 606-616 11 p.

Long-term change of phytoplankton in Lake Kivu: The rise of the greens

Rugema, E., Darchambeau, F., Sarmiento, H., Stoyneva-Gärtner, M., Leitao, M., Thiery, W., Latli, A. & Descy, J. P., 1 nov. 2019, Dans: Freshwater Biology. 64, 11, p. 1940-1955 16 p.

Variations in dissolved greenhouse gases (CO₂, CH₄, N₂O) in the Congo River network overwhelmingly driven by fluvial-wetland connectivity

Borges, A. V., Darchambeau, F., Lambert, T., Morana, C., Allen, G. H., Tambwe, E., Toengaho Sembaito, A., Mambo, T., Wabakhangazi, J. N., Descy, J. P., Teodoru, C. R. & Bouillon, S., 7 oct. 2019, Dans: Biogeosciences. 16, 19, p. 3801-3834 34 p.

Anaerobic methane oxidation and aerobic methane production in an east African great lake (Lake Kivu)

Roland, F. A. E., Morana, C., Darchambeau, F., Crowe, S. A., Thamdrup, B., Descy, J. P. & Borges, A. V., 1 déc. 2018, Dans: Journal of Great Lakes Research. 44, 6, p. 1183-1193 11 p.

Effects of agricultural land use on fluvial carbon dioxide, methane and nitrous oxide concentrations in a large European river, the Meuse (Belgium)

Borges, A. V., Darchambeau, F., Lambert, T., Bouillon, S., Morana, C., Brouyère, S., Hakoun, V., Jurado, A., Tseng, H. C., Descy, J. P. & Roland, F. A. E., 1 janv. 2018, Dans: Science of the Total Environment. 610-611, p. 342-355 14 p.

Studies on cyanoprokaryotes of the water bodies along the Bulgarian Black Sea Coast (1890-2017): A review, with special reference to new, rare and harmful taxa

Descy, J. P., Stoyneva-Gärtner, M. P., Uzunov, B. A., Dimitrova, P. H., Pavlova, V. T. & Gärtner, G., 1 janv. 2018, Dans: Acta Zoologica Bulgarica. Supplementum 11, p. 43-52 10 p.

Cyanoprokatyote and algal biodiversity in the tropical lake Edward (Africa) with notes on new, rare and potentially harmful species

Stoyneva-Gärtner, M. P. & DESCY, J-P., 2018, Dans: Annual of Sofia University "St. Kliment Ohridski", Faculty of Biology. Book 2, Botany. 102, p. 5-48

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, Dans: Ecological applications. 27, 8, p. 2458-2474 17 p.

Effects of human land use on the terrestrial and aquatic sources of fluvial organic matter in a temperate river basin (The Meuse River, Belgium)

Lambert, T., Bouillon, S., Darchambeau, F., Morana, C., Roland, F. A. E., Descy, J. P. & Borges, A. V., 1 nov. 2017, Dans: Biogeochemistry. 136, 2, p. 191-211 21 p.

Assessment of cyanoprokaryote blooms and of cyanotoxins in Bulgaria in a 15-years period (2000-2015)

Stoyneva-Gärtner, M. P., Descy, J. P., Latli, A., Uzunov, B. A., Pavlova, V. T., Bratanova, Z., Babica, P., Maršálek, B., Meriluoto, J. & Spoof, L., 3 mai 2017, Dans: *Advances in Oceanography and Limnology*. 8, 1, p. 131-152 22 p.

Iron-dependent nitrogen cycling in a ferruginous lake and the nutrient status of Proterozoic oceans

Michiels, C. C., Darchambeau, F., Roland, F. A. E., Morana, C., Llíros, M., García-Armisen, T., Thamdrup, B., Borges, A. V., Canfield, D. E., Servais, P., Descy, J. P. & Crowe, S. A., 1 mars 2017, Dans: *Nature Geoscience*. 10, 3, p. 217-221 5 p.

Lake Kivu and its problems

DESCY, J-P., 2017, Dans: *Bulletin des séances de l'Académie royale des sciences d'Outre-mer*. 63, 2, p. 225-234

Phytoplankton dynamics in the Congo River

Descy, J-P., Darchambeau, F., Lambert, T., Stoyneva-Gaertner, M. P., Bouillon, S. & Borges, A. V., oct. 2016, Dans: *Freshwater Biology*.

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 avr. 2016, (E-pub ahead of print) Dans: *Hydrobiologia*.

Identifying the factors determining blooms of cyanobacteria in a set of shallow lakes.

Descy, J-P., Leprieur, F., Pirlot, S., Leporcq, B., Van Wichelen, J., Peretyatko, A., Teissier, S., Codd, G. A., Triest, L., Vyverman, W. & Wilmotte, A., 2016, Dans: *Ecological Informatics* . 34, 129-138

Pelagic photoferrotrophy and iron cycling in a modern ferruginous basin

Llíros, M., García-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, Dans: *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 août 2015, Dans: *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 juil. 2015, Dans: *Biotechnology and Biotechnological Equipment*. 29, p. S33-S38

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

Inceoğlu, Ö., Llíros, M., Crowe, S. A., García-Armisen, T., Morana, C., Darchambeau, F., Borges, A. V., Descy, J. P. & Servais, P., 26 avr. 2015, Dans: *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 avr. 2015, Dans: *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 mars 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., Llíros Dupre, M., García-Armisen, T., Crowe, S. A., Michiels, C., Darchambeau, F., Descy, J. P. & Servais, P., 2015, Dans: *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 Isumbisho, 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

Llirós, M., Inceoğlu, Ö., García-Armisen, T., Anzil, A., Leporcq, B., Pigneur, L. M., Viroux, L., Darchambeau, F., Descy, J-P. & Servais, P., 26 déc. 2014, Dans: 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, Dans: 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 avr. 2014, Dans: 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., Deliége, J. F., Smits, J. S., Van Doninck, K. & Descy, J-P., 1 mars 2014, Dans: 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 mars 2014, Dans: The 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 févr. 2014 , Dans: 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 janv. 2014, Dans: 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 Sarmento, H., Amado, A. M. & Descy, J-P., 1 oct. 2013, Dans: Freshwater Biology. 58, 10, p. 2208-2210 3 p.

Establishing expectations for pan-European diatom based ecological status assessments

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