

Jean-Pierre Descy
Professor, emeritus
Department of Biology
University of Namur
jpdescy@unamur.be

Scientific collaborator
UOC
University of Liège
jpdescy@uliege.be



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.

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)

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)

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

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

La Meuse transparente, un signe d'amélioration ?

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

Drivers of phytoplankton diversity in Lake Tanganyika

Descy, J.-P., Tarbe, A.-L., Stenuite, S., Pirlot, S., Stimart, J., Vanderheyden, J., Leporcq, B., Stoyneva, M. P., Kimirei, I., Sinyinza, D. & Plisnier, P.-D., 1 Jan 2010, In: *Hydrobiologia*. 653, 1, p. 29-44 16 p.

Variability of phytoplankton pigment ratios across aquatic environments

Descy, J.-P., Sarmiento, H. & Higgins, H. W., 1 Aug 2009, In: *European Journal of Phycology*. 44, 3, p. 319-330 12 p.

Abundance and production of bacteria, and relationship to phytoplankton production, in a large tropical lake (Lake Tanganyika)

Descy, J.-P., Stenuite, S., Pirlot, S., Tarbe, A.-L., Sarmiento, H., Lecomte, M., Thill, S., Leporcq, B., Sinyinza, D. & Servais, P., 1 Jun 2009, In: *Freshwater Biology*. 54, 6, p. 1300-1311 12 p.

Continental Atlantic Rivers

Descy, J.-P., 2009, *Rivers of Europe*. Tockner, K., Uehlinger, U. & Robinson, C. T. (eds.). London: Elsevier, p. 151-198

Microorganisms of the East African Great Lakes and their response to environmental changes

Descy, J.-P. & Preto de Morais Sarmiento, H. M., 2008, In: *Freshwater Reviews*. 1, p. 59-73 15 p.

Climate variability as recorded in Lake Tanganyika (CLIMLAKE) : final report

Descy, J.-P., Plisnier, P.-D., Leporcq, B., Stenuite, S., Pirlot, S., Stimart, J., Gosselain, V., André, L., Alleman, L., Vyverman, W., Cocquyt, C., De Wever, A., Stoyneva, M., Deleersnijder, E., Naithani, J., Chitamwebwa, D., Kimirei, I., Sekadende, B., Mwaitega, S. & Muhoza, S. & 5 others, Sinyenza, D., Makasa, L., Lukwessa, C., Zulu, I. & Phiri, H., 2006, Bruxelles: Belgium Science Policy .

Le phytoplancton du lac Tanganyika: une vision par l'analyse des pigments algaux

Descy, J.-P., Leporcq, B., Hardy, M.-A., Pirlot, S., Stenuite, S., Kimirei, I., Sekadende, B., Mwaitega, S. & Sinyenza, D., 2006, In: *Bulletin de l'Académie Royale des Sciences d'Outre Mer*. 51, 2, p. 129-142 14 p.

Diatom and other algal assemblages

Descy, J. P., 1 Dec 2005, *Modelling Community Structure in Freshwater Ecosystems*. Springer Verlag, p. 261-262 2 p.

Phytoplankton pigments and community composition in Lake Tanganyika

Descy, J.-P., Hardy, M.-A., Stenuite, S., Pirlot, S., Leporcq, B., Kimirei, I., Sekadende, B., Mwaitega, S. R. & Sinyenza, D., 1 Apr 2005, In: *Freshwater Biology*. 50, 4, p. 668-684 17 p.

Climate variability as recorded in lake Tanganyika (CLIMLAKE). SSPD 2, Part 2, Global change, Ecosystems and Biodiversity, Atmosphere and Climate.

Descy, J.-P., ANDRE, L., VYVERMAN, W. & DELEERSNIJDER, E., 2005, Brussels Belgium: Belgium Science Policy . 119 p.

Modelling the impact of benthic filter-feeders on the composition and biomass of river plankton

Descy, J.-P., Gosselain, V., Viroux, L., Everbecq, E. & Smitz, J. S., 1 Mar 2003, In: *Freshwater Biology*. 48, 3, p. 404-417 14 p.

Modelling the impact of benthic filter-feeders composition and biomass of river plankton

Descy, J.-P., EVERBECQ, E., Gosselain, V., Viroux, L. & SMITZ, J., 2003, In: *Freshwater Biology*. 48, 3, p. 404-417 14 p.

Modelling the structure of aquatic communities : concepts, methods and problems.

Descy, J.-P., 2003, Amsterdam: Elsevier. 112 p. (Ecological modelling; vol. 160)

Modélisation de l'impact de mollusques filtreurs sur le phytoplancton de la Moselle. Tribune de l'Eau 619-620, 130-138.

Descy, J.-P., Everbecq, E., Gosselain, V., Viroux, L. & Smits, J. S., 2002

Phytoplankton production, exudation and bacterial reassimilation in the River Meuse (Belgium)

Descy, J.-P., Leporcq, B., Viroux, L., François, C. & Servais, P., 2002, In: Journal of Plankton Research. 24, 3, p. 161-166 6 p.

Pigment ratios and phytoplankton assessment in northern Wisconsin lakes

Descy, J. P., Higgins, H. W., Mackey, D. J., Hurley, J. P. & Frost, T. M., 18 Sept 2000, In: Journal of phycology. 36, 2, p. 274-286 13 p.

Pigment ratio and phytoplankton assessment in North Wisconsin lakes

Descy, J.-P., Higgins, H., Mackey, D., Frost, T. & Hurley, J., 2000, In: Journal of phycology. 36, 2, p. 274-286 13 p.

Pigments and phytoplankton composition in LTER lakes (Wisconsin, USA)

Descy, J.-P., Higgins, H., Mackey, D., Hurley, J.-P. & Frost, T., 2000, In: Verhandlungen / Internationale Vereinigung für Theoretische und Angewandte Limnologie. 27, p. 930-931 2 p.

Assessment of grazing by the freshwater copepod *Diaptomus minutus* using carotenoid pigments: A caution

Descy, J. P., Frost, T. M. & Hurley, J. P., 1 Jan 1999, In: Journal of Plankton Research. 21, 1, p. 127-145 19 p.

Evaluation de la qualité biologique de l'eau : des micro-algues aux poissons.

Descy, J.-P. & Darchambeau, F., 1999, In: Annales Medicinæ Militaris Belgicæ. 13, p. 151-158 8 p.

Use of diatoms for monitoring rivers in Belgium and Luxemburg

Descy, J.-P. & Ector, L., 1999, *Use of Algae for Monitoring Rivers III : Proceedings of an International Symposium Held at the Agence de L'Eau Artois-Picardie, Douai, Douai, France, 29 September - 1 October 1997*. Prygiel, J. & Bukowska, J. (eds.). Agence de l'Eau Artois-Picardie, Vol. 3.

Use of diatoms for monitoring rivers in Belgium and Luxemburg.

Descy, J.-P. & Ector, L., 1999, *Use of Algae for Monitoring Rivers III*. Prygiel, J., BA, W. & Bukowska, J. (eds.). p. 128-137 10 p.

Biomass-pigment relationships in potamoplankton

Descy, J. P. & Métens, A., 1 Jan 1996, In: Journal of Plankton Research. 18, 9, p. 1557-1566 10 p.

Biomass-pigment relationship in potamoplankton. Journal of Plankton Research, 18(9), 1557-1566.

Descy, J.-P. & Métens, A., 1996

Essai de caractérisation des lacs du Rwanda par leur communauté phytoplanctonique. Acad. Roy. Sci. Outre-Mer, Hommage au secrétaire général J.-J. Symoens, 15-31.

Descy, J.-P., 1995

Development and ecological importance of phytoplankton in a large lowland river (River Meuse, Belgium)

Descy, J.-P. & Gosselain, V., 1994, In: Hydrobiologia. 289, p. 139-155 17 p.

Phytoplankton in turbid environments : Rivers and shallow lakes.

Descy, J.-P., Reynolds, C. S. & Padiasak, J., 1994, Dordrecht: Kluwer Academic Publishers. 214 p. (Developments in hydrobiology)

Respiration and photosynthesis of river phytoplankton

Descy, J.-P., Gosselain, V. & EVRARD, F., 1994, In: Verhandlungen / Internationale Vereinigung für Theoretische und Angewandte Limnologie. 25, p. 1555-1560 6 p.

Respiration and photosynthesis of river phytoplankton. Verh. Int. Verein. Limnol., 25, 1555-1560.

Descy, J.-P., Gosselain, V. & Evrard, F., 1994

Ecology of the phytoplankton of the River Moselle: effects of disturbances on community structure and diversity. Hydrobiologia, 249, 111-116.

Descy, J.-P., 1993

Eutrophication in the River Meuse. In "Eutrophication: research and application to water supply", Eds. D.W. Sutcliffe & J.G. Jones, Freshwater Biological Association, Ambleside, U.K., 132-142.

Descy, J.-P., 1992

Qualité des eaux de surface en Wallonie. Tribune de l'Eau, 45 (555), 53-57.

Descy, J.-P., 1992, In: Tribune de l'eau.

Contribution a la connaissance du phytoplancton de la Moselle (France)

Descy, J.-P. & Willems, C., 1 Jan 1991, 14 p.

A test of methods for assessing water quality based on diatoms. Verh. Internat. Verein. Limnol., 24, 2112-2116.

Descy, J.-P. & Coste, M., 1991

Contribution à la connaissance du phytoplancton de la Moselle (France). Cryptogamie, Algol., 12(2), 87-100

Descy, J.-P. & Willems, C., 1991

Quelques données récentes sur la production planctonique du lac Kivu (Rwanda). In: "Hommage à F.A. Forel", éd. P. Vernet, 3e CILEF, Morges, Suisse, 147-149.

Descy, J.-P. & Fourniret, Y., 1991

Primary production in the river Meuse (Belgium). Verh. Internat. Verein. Limnol., 23, 1287-1293.

Descy, J.-P., Everbecq, E. & Smitz, J. S., 1988

Use of biological indices of water quality. Statistical Journal of the United Nations ECE, 5, 249-261.

Descy, J.-P. & Micha, J.-C., 1988

Phytoplankton biomass and production in the river Meuse (Belgium)

Descy, J.-P., Servais, P., Smitz, J. S., Billen, G. & Everbecq, E., 1 Dec 1987, In: Water Research. 21, 12, p. 1557-1566 10 p.

Etudes écologiques de la Meuse en relation avec les rejets des centrales nucléaires. Annales de l'Association Belge de Radioprotection, 12 (2-3), 127-137.

Descy, J.-P., 1987

Phytoplankton composition and dynamics in the river Meuse (Belgium). Arch. Hydrobiol., Suppl. 78 (2), Algological Studies, 47, 225-245

Descy, J.-P., 1987

1. Meuse. In : "Ecology of European Rivers" Ed. B.A. Whitton, Blackwell Sc. Publ., Oxford, 1-23.

Descy, J.-P. & Empain, A., 1984

Ecologie et distribution de diatomées benthiques dans le bassin belge de la Meuse. Doc. Trav., n°18, Inst. Roy. Sc. Nat. Belg., Bruxelles, 25 p. + 70 pl.

Descy, J.-P., 1984

Impact of the Tihange nuclear power plant on the periphyton and the phytoplankton of the Meuse River (Belgium). Hydrobiologia, 119, 119-128.

Descy, J.-P. & Mouvet, C., 1984

Les communautés algales de la haute Meuse belge et la qualité de ses eaux: un bilan à l'automne 1981

Descy, J. P., 1 Jan 1983, In: Bulletin de la Société Royale de Botanique de Belgique. 116, 1, p. 31-50 20 p.

Contribution à l'étude des diatomées du bassin de la Meuse (période 1975-1980) : liste floristique et commentaire sur divers taxons rares ou nouveaux pour la Belgique. Lejeunia, N.S., 111, 36 pp., 32 fig.

Descy, J.-P., 1983

Les communautés algales de la haute Meuse belge et la qualité de ses eaux : un bilan à l'automne 1981. Bull. Soc. Roy. Bot. Belgique, 116, p. 31-50.

Descy, J.-P., 1983

Un inventaire de la qualité des eaux du bassin wallon de la Meuse (1976-1980). Tribune du Cebedeau, n° 463-464, p. 267-278.

Descy, J.-P., Empain, A. & Lambinon, J., 1982

Utilisation des algues benthiques comme indicateurs biologiques de la qualité des eaux courantes. In : "La pollution des eaux continentales", 2ème éd., éd. P. Pesson, Gauthier-Villars, Paris, pp. 169-194.

Descy, J.-P., 1980

A new approach to water quality estimation using diatoms. Beih. Nova Hedw., 64, 305-323.

Descy, J.-P., 1979

Etude préliminaire des peuplements de Diatomées benthiques de la Haute Semois en vue d'une évaluation de la qualité biologique des eaux.

Descy, J.-P., 1978, *Etude des eaux superficielles du bassin de la Meuse - La Semois: Fondation Universitaire Luxembourgeoise*. Vol. 15. p. 8-24 17 p.

Analyse physico-chimique de la Meuse et de la Sambre belges, en 1973 et 1974, Liège : CEBEDOC

Descy, J.-P. & Empain, A., 1976, *Recherche et Technique au service de l'Environnement*. Liège: Cebedoc, p. 139-157 19 p.

Estimation de la qualité des eaux de la Somme par l'étude des peuplements algaux benthiques. Bull. Franç. Piscicult., 260, pp. 143-147.

Descy, J.-P., 1976

Etude quantitative du peuplement algal benthique en vue de l'établissement d'une méthodologie d'estimation biologique de la qualité des eaux courantes : application au cours belge de la Meuse et de la Sambre

Descy, J.-P., 1976, *Recherche et technique au Service de l'Environnement*. p. 159-206 48 p.

La végétation algale benthique de la Somme (France) et ses relations avec la qualité des eaux. Mém. Soc. Roy. Bot. Belg., 7, pp. 101-128.

Descy, J.-P., 1976

Un appareillage pratique pour l'échantillonnage quantitatif du périphyton épilithique. Bull. Soc. Roy. Bot. Belg., 109, pp. 43-47.

Descy, J.-P., 1976

Utilisation des algues benthiques comme indicateurs biologiques de la qualité des eaux courantes

Descy, J.-P., 1976, *La pollution des eaux continentales*. Pesson, P. (ed.). p. 149-172 24 p.

Elodea nuttallii (Planch.) St. John dans le département des Ardennes (France). *Natura Mosana*, 27 (4), pp. 145-146.

Descy, J.-P. & Duvigneaud, J., 1975

A propos d'une algue intéressante du Boulonnais: *Chlorotylium cataractarum* Kütz. *Bull. Soc. Roy. Bot. Belg.*, 107, pp. 407-408.

Descy, J.-P., 1974

***Thorea ramosissima* Bory (Rhodophyceae, Nemalionales) dans le bassin mosan belge. *Bull. Soc. Roy. Bot. Belg.*, 107, pp. 23-26.**

Descy, J.-P. & Empain, A., 1974

La végétation algale benthique de la Meuse belge et ses relations avec la pollution des eaux. *Lejeunia*, nouv. sér., 66, 62 pp.

Descy, J.-P., 1973

Une Chlorophycée remarquable nouvelle pour la Belgique : *Schizomeris leibleinii* Kütz. dans la Meuse à Hermalle-sous-Argenteau. *Bull. Soc. Roy. Bot. Belg.*, 105, pp. 214-216.

Descy, J.-P., 1972