



2nd Announcement of the International Workshop / School on

Tracer and Timescale Methods for Understanding Complex Geophysical and Environmental Processes

Louvain-la-Neuve, Belgium

August 16-19, 2011

www.uclouvain.be/ttm2011/

Motivation. Understanding advective-diffusive transport and production/destruction processes of dissolved constituents in natural fluid flows is an important challenge in Earth and environmental sciences with many diverse applications. Moreover, geophysical and environmental models routinely produce huge amounts of real numbers. To make sense of them, computer graphics is not sufficient, and has to be complemented with specific interpretation methods. Among them, an approach that is progressively becoming popular consists in using real or hypothetical tracers to tag fluid masses and estimating associated timescales, i.e. age, residence time, transit time, etc. Such timescales lead to very helpful diagnoses that are increasingly applied in interdisciplinary environmental studies. The workshop/school will review what has been achieved so far in this field of research and suggest new developments.

Scientific programme. Tutorials will be delivered by members of the scientific committee. In addition, oral contributions or posters are expected to be presented by most of the attendees, dealing with model studies, theoretical developments, field measurements — for model validation or other purposes — or numerical methods, be they of a Eulerian or Lagrangian nature. The diagnoses may concern air, water, passive/inert tracers, biogeochemical variables, sediment particles, etc.

Practical information about deadlines, abstract submission, accommodation and workshop venue will progressively be posted on the abovementioned web site and will be distributed to the workshop/school mailing list.

Tutorials and selected articles originating from this workshop/school will be published in a book edited by the relevant members of the scientific committee.

Scientific committee: M. Bocquet (ParisTech, Marne la Vallée, France) • F. Cornaton (Tecnologico de Monterrey, Mexico) • A. de Brauwere (Louvain-la-Neuve, Belgium) • E. Deleersnijder (Louvain-la-Neuve, Belgium) • E.J.M. Delhez (Liège, Belgium) • J.-C. Dutay (LSCE, Saclay, France) • M. Elskens (VUB, Brussels, Belgium) • M.H. England (UNSW, Sydney, Australia) • T.W.N. Haine (Johns Hopkins Univ., USA) • E. Hanert (Louvain-la-Neuve, Belgium) • A.W. Heemink (Delft, The Netherlands) • M. Holzer (UNSW, Sydney, Australia) • W.J. Jenkins (WHOI, USA) • S. Khatiwala (Lamont-Doherty Earth Observatory of Columbia Univ., USA) • F. Lekien (ULB, Brussels, Belgium) • L.V. Lucas (U.S. Geological Survey, Menlo Park, USA) • F. Primeau (Univ. California Irvine, USA) • D. Roche (LSCE, Saclay, France) • M. Vanclooster (Louvain-la-Neuve, Belgium) • J. Vanderborcht (KULeuven, Belgium & Forschungszentrum Jülich GmbH, Germany) • D.W. Waugh (Johns Hopkins Univ., USA)

Organising committee: Anouk de Brauwere • Eric Deleersnijder • Eric J.M. Delhez • Marc Elskens • Thomas W.N. Haine • Emmanuel Hanert • Marnik Vanclooster • Jan Vanderborcht •

Sponsors: BELSPO (www.belspo.be/iap) • ENVITAM (www.envitam.org) • FWO* (www.fwo.be) • NSF (www.nsf.gov) • Others* •

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*: to be confirmed.