

# Publications (Jérôme Le Coz)

## Hydrometry: new measurement technologies

Fovet, O., Belemtougri, A., Boithias, L., Braud, I., Charlier, J.-B., Cottet, M., Daudin, K., Dramais, G., Ducharne, A., Folton, N., Grippa, M., Hector, B., Le Coz, J., Legal, L., Martin, P., Moatar, F., Molenat, J., Probst, A., Riotte, J., Vidal, J.-P., Vinatier, F., Datry, T. (submitted) Intermittent rivers and ephemeral streams: perspectives for critical zone sciences and research on socio-ecosystems, **WIREs Water**

Perks, M. T., Dal Sasso, S., Hauet, A., Pearce, S., Peña-Haro, S., Tauro, F., Grimaldi, S., Hortobágyi, B., Jodeau, M., Le Coz, J., Maddock, I., Pénard, L., Manfreda, S. (2020) [Towards harmonization of image velocimetry techniques for river surface velocity observations](#), **Earth System Science Data**, 12, 1545-1559

Nord, G., Boudevillain, B., Gérard, S., Molinié, G., Vandervaere, J.P., Huza, J., Le Coz, J., Dramais, G., Legout, C., Berne, A., Grazioli, J., Raupach, T., Van Baelen, J., Wijbrans, A., Braud, I., Delrieu, G., Andrieu, J. Caliano, M., Aubert, C., Huza, J., Teuling, A.J. (2017) [A high space-time resolution dataset linking meteorological forcing and hydro-sedimentary response in a mesoscale Mediterranean catchment \(Auzon\) of the Ardèche region, France](#), **Earth Sytem Science Data**, 9, 221–249

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Le Boursicaud, R., Pénard, L., Hauet, A., Le Coz, J. (2016) [Gauging extreme floods on YouTube: Application of LSPIV to home movies for the post-event determination of stream discharges](#), **Hydrological Processes**, 30, 90-105

Braud, I., Ayrat, P.-A., Bouvier, C., Branger, F., Delrieu, G., Le Coz, J., Nord, G., Vandervaere, J.-P. et al. (2014) [Multi-scale hydrometeorological observation and modelling for flash-flood understanding](#), **Hydrol. Earth Syst. Sci.**, 18, 3733-3761. doi:10.5194/hess-18-3733-2014

Dramais, G., Le Coz, J., Camenen, B., Hauet, A. (2011) [Advantages of a mobile LSPIV method for measuring flood discharges and improving stage-discharge curves](#), **Journal of Hydro-Environment Research**, 5, 301-312

Le Coz, J., Hauet, A., Pierrefeu, G., Dramais, G., Camenen, B. (2010) - [Performance of image-based velocimetry \(LSPIV\) applied to flash-flood discharge measurements in Mediterranean rivers](#), **Journal of Hydrology**, 394 (1-2), 42-52

Jodeau, M., Hauet, A., Paquier, A., Le Coz, J., Dramais, G. (2008) - [Application and evaluation of LS-PIV technique for the monitoring of river surface velocities in high flow conditions](#), **Flow Measurement and Instrumentation**, 19(2), 117-127

Le Coz, J., G. Pierrefeu, and A. Paquier (2008) [Evaluation of river discharges monitored by a fixed side-looking Doppler profiler](#), **Water Resources Research**, 44, W00D09

### **Hydrometry: uncertainty analysis**

Le Coz, J., Renard, B., Vansuyt, V., Jodeau, M., Hauet, A. (submitted) Estimating the uncertainty of video-based flow velocity and discharge measurements due to the conversion of field to image coordinates, **Hydrological Processes**

Horner, I, Le Coz, J., Renard, B., Branger, F., Lagouy, M. (submitted) Streamflow uncertainty due to the limited sensitivity of controls at hydrometric stations, **Hydrological Processes**

Mansanarez, V., Le Coz, J., Renard, B., Lang, M. (submitted) Stage-gradient-discharge models: Bayesian analysis of hysteresis due to unsteady flows, **Water Resources Research**

Darienzo, M., Le Coz, J., Renard, B., Lang, M. (submitted) Detection of stage-discharge rating shifts using gaugings: a recursive segmentation procedure accounting for observational and model uncertainties, **Water Resources Research**

Perret, E., Le Coz, J., Renard, B. (2021) A rating curve model accounting for cyclic stage-discharge shifts due to seasonal aquatic vegetation, **Water Resources Research** (in press)

Despax, A., Le Coz, J., Hauet, A., Mueller, D.S., Engel, F.L., Blanquart, B. Renard, B., Oberg, K.A. (2019) Decomposition of uncertainty sources in ADCP streamflow measurements using repeated measures experiments, **Water Resources Research**, 55

Mansanarez, V., Renard, B., Le Coz, J. Lang, M., Darienzo, M. (2019) Shift happens! Adjusting stage-discharge rating curves to morphological changes at known times, **Water Resources Research**, 55, 2876-2899

Kiang, J.E., Gazoorian, C., McMillan, H., Coxon, G., Le Coz, J., Westerberg, I., Belleville, A., Sevrez, D., Sikorska, A.E., Petersen-Øverleir, A., Reitan, T., Freer, J., Renard, B., Mansanarez, V., Mason, R. (2018) A comparison of methods for streamflow uncertainty estimation, **Water Resources Research**, 54, 7149-7176

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Le Coz, J., Camenen, B., Peyrard, X., Dramais G. (2015) [Erratum - Uncertainty in open-channel discharges measured with the velocity-area method](#), **Flow Measurement and Instrumentation**, 46, 193-194

Le Coz, J., Renard, B., Bonnifait, L., Branger, F., Le Boursicaud, R. (2014) - [Combining hydraulic knowledge and uncertain gaugings in the estimation of hydrometric rating curves: a Bayesian approach](#), **Journal of Hydrology**, 509, 573–587

Le Coz, J., Camenen, B., Peyrard, X., Dramais, G. (2012) - [Uncertainty in open-channel discharges measured with the velocity-area method](#), **Flow Measurement and Instrumentation**, 26, 18-29

### **Sediment and contaminant fluxes in rivers**

Dramais, G., Le Coz, J., Camenen, B., Topping, D.J., Santini, W., Pierrefeu, G. (submitted) River suspended-sand discharge-computation, using water samples and high-resolution ADCP measurements, **Earth Surface Processes and Landforms**

Vergne, A., Berni, C., Le Coz, J., Tencé, F. (submitted) Acoustic backscatter and attenuation due to river fine sediments: experimental evaluation of models and inversion methods, **Water Resources Research**

Gond, L., Mignot, E., Le Coz, J., Kateb, L. (submitted) Transverse mixing in longitudinally-varied rivers, **Water Resources Research**

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Dabrin, A., Bégorre C., Bretier, M., Dugué, V., Masson, M., Le Bescond, C., Le Coz, J., Coquery, M. (2021) Reactivity of particulate element concentrations: apportionment assessment of suspended particulate matter sources in the Upper Rhône River, France, **Journal of Soils and Sediments**, 21(2), 1256-1274

Lepage, H., Launay, M., Le Coz, J., Angot, H., Miège, C., Gairoard, S., Radakovitch, O., Coquery, M. (2020) Impact of dam flushing operations on sediment dynamics and quality in the upper Rhône River, France, **Journal of Environmental Management**, 255, 109886

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Launay, M., Dugué, V., Faure, J.-B., Coquery, M., Camenen, B., Le Coz, J. (2019) - Numerical modelling of the suspended particulate matter dynamics in a regulated river network, **Science of the Total Environment**, 665, 591-605

Poulier, G., Launay, M., Le Bescond, C., Thollet, F., Coquery, M., Le Coz, J. (2019) - Combining flux monitoring and data reconstruction to establish annual budgets of suspended particulate matter, mercury and PCB in the Rhône River from Lake Geneva to the Mediterranean Sea, **Science of the Total Environment**, 658, 457–473

Masson, M., Angot, H., Le Bescond, C., Launay, M., Dabrin, A., Miège, C., Le Coz, J., Coquery, M. (2018) - Sampling of suspended particulate matter using particle traps in the Rhône River: Relevance and representativeness for the monitoring of contaminants, **Science of the Total Environment**, 637-638, 538-549

Launay, M., Le Coz, J., Camenen, B., Walter, C., Angot, H., Dramais, G., Faure, J.B., Coquery, M. (2015) - [Calibrating pollutant dispersion in 1-D hydraulic models of river networks](#), **Journal of Hydro-environment Research**, 9, 120-132

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## **Books**

M. Muste, J. Le Coz, K. Lee (2017) Uncertainty analysis for hydraulic measurements, in **Experimental Hydraulics: Methods, Instrumentation, Data Processing and Management**, Volume 1, Chapter 7, IAHR Monographs, CRC Press, Taylor and Francis.

Le Coz, J., Caré, I. (2017) *Détermination du débit de fluide par intégration du champ des vitesses (Determination of fluid flow rate using the velocity-area method)*, Article R2210, Editions Techniques de l'Ingénieur, 19 p. (Update of the article by Dupriez, F., 1992).

Puechberty, R., Perret, C., Poligot-Pitsch, S. (2017) [Charte Qualité de l'Hydrométrie - Guide de bonnes pratiques](#), Ministère de l'Environnement, de l'Énergie et de la Mer, 83 p. Contributor.

Rodier, J., Legube, B., Merlet, N. (2016) *L'analyse de l'eau. Eaux naturelles, eaux résiduaires, eau de mer*. Collection : Technique et Ingénierie, Dunod, 10ème édition, 1824 p. EAN13 : 9782100754120. Revision of the 'Discharges' section in: *A-1 Prélèvements, Connexions aquifères, Débits cours d'eaux*.

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Le Coz, J., Camenen, B., Dramais, G., Ferry, M., Rosique, J.L., Ribot-Bruno, J. (2011) [Contrôle des débits réglementaires. Application de l'article L. 214-18 du Code de l'environnement](#) [*Inspection of statutory discharges. Application of the L. 21418 article of the Environment Code*], Eds. Onema/Irstea, 128 p.

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### **Research and technical papers in French**

Launay, M., Le Coz, J., Diouf, S., Camenen, B., Thollet, F., Coquery, M. (2019) Réévaluation des apports moyens de matières en suspension de l'Arve au Rhône [*Re-estimation of mean suspended solid delivery of the Arve River to the Rhône River*], **La Houille Blanche**, 2, 89-100

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Le Coz, J. (2018) L'hydrométrie en Nouvelle-Zélande : l'esprit « Number 8 wire » [*Hydrometry in New Zealand: the "Number 8 wire" mentality*], **La Houille Blanche**, 2, 1-9, DOI 10.1051/lhb/2018025

Despax, A., Perret, C., Garcon, R., Hauet, A., Belleville, A., Le Coz, J., Favre, A.-C. (2018) Prise en compte de la qualité de l'échantillonnage dans l'estimation de l'incertitude des jaugeages par exploration du champ des vitesses (méthode Flaure) [*Considering sampling quality for estimating the uncertainty of gaugings using the velocity-area method (Flaure method)*], **La Houille Blanche**, 1, 36-41

Horner, I., Le Coz, J., Renard, B., Branger, F. (2018) - Impact de la sensibilité des contrôles hydrauliques sur les incertitudes hydrométriques [The impact of control sensitivity on hydrometric uncertainties], **La Houille Blanche**, 1, 27-35, 10.1051/lhb/2018004

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Thollet, F., Le Coz, J., Dramais, G., Nord, G., Le Boursicaud, R., Jacob, E., Buffet, A. (2017) – [Mesure de débit en rivière par station radar hauteur / vitesse selon la méthode de la vitesse témoin \[Streamflow monitoring at stage / velocity radar stations using the index velocity method\]](#), **La Houille Blanche**, 5, 9-15. doi:10.1051/lhb/2017038

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A. Hauet, M. Jodeau, J. Le Coz, B. Marchand, A. die Moran, R. Le Boursicaud, G. Dramais (2014) - [Application de la méthode LSPIV pour la mesure de champs de vitesse et de débits de crue sur modèle réduit et en rivière](#), **La Houille Blanche**, 3, 16-22, doi 10.1051/lhb/2014024

G. Dramais, J. Le Coz, R. Le Boursicaud, A. Hauet, M. Lagouy (2014) - [Jaugeage par radar mobile, protocole et résultats](#), **La Houille Blanche**, 3, 23-29 DOI 10.1051/lhb/2014025

J. Le Coz, P.-M. Bechon, B. Camenen, G. Dramais (2014) - [Quantification des incertitudes sur les jaugeages par exploration du champ des vitesses](#), **La Houille Blanche**, 5, 2014, 31-39, doi 10.1051/lhb/2014047

G. Dramais, B. Blanquart, J. Le Coz, G. Pierrefeu, A. Hauet, D. Atmane, K. Pobanz (2014) - [Les essais inter laboratoires en hydrométrie, méthodologie et cas d'applications](#), **La Houille Blanche**, 5, 13-19, doi 10.1051/lhb/2014045

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