

# Publications (Jérôme Le Coz)

## Hydrometry: new measurement technologies

Le Coz, J., Pernot, F., Buffet, A., Lagouy, M., Berni, C. (submitted) The streamgauging ruler: a low-cost, low-tech, alternative discharge measurement technique, **Journal of Hydrology**

Bodart, G., Le Coz, J., Hauet, A., Jodeau, J. (2024) [Quantifying and reducing the operator effect in LSPIV velocity and discharge measurements](#), **Water Resources Research**, 60, e2023WR034740.

Bodart, G., Le Coz, J., Jodeau, M., Hauet, A. (2022) [Synthetic river flow videos for evaluating image-based velocimetry methods](#), **Water Resources Research**, 58, e2022WR032251.

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. (2021) [Intermittent rivers and ephemeral streams: perspectives for critical zone sciences and research on socio-ecosystems](#), **WIREs Water**, 8, e1523

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

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Welber, M., Le Coz, J., Laronne, J.B., Zolezzi, G., Zamler, D., Dramais, G., Hauet, A., Salvato, M. (2016) Field assessment of non-contact stream gauging using portable surface velocity radars (SVR), **Water Resources Research**, 52, 1108–1126

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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.

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

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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**

Lucas, M., Lang, M., Renard, B., Le Coz, J. (submitted) A more comprehensive uncertainty framework for historical flood frequency analysis: a 500-year long case study, **HESS**

Lucas, M., Renard, B., Le Coz, J., Lang, M., Bard, A., Pierrefeu, G. (2023) [Are historical stage records useful to decrease the uncertainty of flood frequency analysis? A 200-year long case study](#), **Journal of Hydrology**, 624, 129840.

Despax, A., Le Coz, J., Mueller, D.S., Hauet, A., Calmel, B., Pierrefeu, P., Naudet, G., Blanquart, B., Pobanz, K. (2023) [Validation of an uncertainty propagation method for moving-boat ADCP discharge measurements](#), **Water Resources Research**, 59, e2021WR031878

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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

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

Laible, J., Dramais, G., Le Coz, J., Calmel, B., Camenen, B., Topping, D.J., Santini, W., Pierrefeu, G., Lauters, F. (submitted) River suspended-sand flux computation with uncertainty estimation, using water samples and high-resolution ADCP measurements, **Earth Surface Dynamics**

Bakker, M., Legout, C., Biron, R., Nord, G., Le Bouteiller, C., Boithias, L., Cotel, S., Coulaud, C., Denis, H., Dramais, G., Droujko, J., Fovet, O., Freche, G., Grippa, M., Le Coz, J., Lucas, A., Martinez, J.-M., Meric, F., Mora, H., Némery, J., Payandi-Rolland, D., Pierrefeu, G., Probst, A., Probst, J.-L., Raclot, D., Ribolzi, O., Rousseau, C., Salvador-Blanes, S., Santini, W., Seve, F., Thollet, F., Vanhooydonck, P., Zanker, S. (submitted)  
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Lepage, H., Gruat, A., Thollet, F., Coquery, M., Dabrin, A., Le Coz, J., Masson, M., Radakovitch, O., Ambrosi, J.-P., Delanghe, D., Labille, J., Raimbault, R. (2022)  
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### **River morphodynamics**

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Arnaud, F., Paquier, A., Vázquez-Tarrío, D., Camenen, B., Le Coz, J., Michel, K., Naudet, G., Pella, H., Piégay, H. (2023). [Comparing field, probabilistic, and 2D numerical approaches to assess gravel mobility in a gravel-bed river](#). **Water Resources Research**, 59, e2022WR034127.

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## **Books**

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

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