
ALVARO TENA (Zaragoza, 1981)
Postdoctoral Researcher
Department of Environment and Soil Sciences
University of Lleida (Catalonia, Spain)
Fluvial Dynamics Research Group (RIUS)
alvaro.tena@macs.udl.cat

CARRER

Alvaro is a Fluvial geomorphologist. He has a Ph.D. in Geography from the University of Zaragoza (2012). Alvaro's Ph.D. was supervised by Dr. Ramon J Batalla (University of Lleida) and focused on suspended sediment dynamics in the Ebro River, a large Mediterranean impounded river located in the North of the Iberian Peninsula. Alvaro's research interests lies with suspended sediment transport and associated geomorphic processes. His research extends to sediment and water management in regulated rivers (e.g. design and implementation of flushing flows), and modeling of fluvial processes. During his PhD, Alvaro has visited three international institutions (the Ecole Normale Supérieure (ENS-CNRS), the University of St. Andrews and the Agricultural University of Krakow) amounting to a total of 16 months. He has participated and collaborated in several research projects. Currently he is a postdoctoral researcher on the framework of the CONSOLIDER project: "SCARCE: Assessing and predicting effects on water quantity and quality in Iberian rivers caused by global change".

INTERNATIONAL SCI PEER-REVIEWED PUBLICATIONS

TENA, A., BATALLA, R.J., VERICAT, D., LÓPEZ-TARAZÓN, J.A. (2011): Suspended sediment dynamics in a large regulated river over a 10-year period (The Lower Ebro, NE Iberian Peninsula). *Geomorphology*, 125, 73 - 84.

TENA, A., BATALLA, R.J., VERICAT, D. (2012): Reach scale suspended sediment balance in a large Mediterranean river downstream from dams. *Hydrological Sciences Journal*, 57(5), 831-849

TENA, A., KSIAZEK, L., VERICAT, D., BATALLA, R. J. (2012): Assessing the geomorphic effects of a flushing flow in a large regulated river. *River Research and Applications*. Doi: 10.1002/rra.2572 (Early view)

TENA, A., BATALLA, R.J. (2013): The sediment budget of a large river regulated by dams (The lower Ebro, NE Spain). *Journal of Soils and Sediments*, 13 (5), 966-980

NATIONAL PEER-REVIEWED PUBLICATIONS

LÓPEZ-TARAZÓN, JA., **TENA, A.**, VERICAT, D., BATALLA, R.J. (2011): Acumulación de sedimentos finos en el lecho del río isábena: Efectos sobre el transporte y la dinámica sedimentaria. *Cuaternario y Geomorfología*, 25 (3-4), 35-57

RUIZ-BELLET, J.L., BALASCH, J.C., **TENA, A.** (2011): Suspended sediment transfer during a flood along the dam-regulated Segre River (NE Iberian Peninsula). *Cuaternario y Geomorfología*, 25 (3-4), 87-101

CONFERENCE PROCEEDINGS IN THE LAST YEAR

TENA, A., KSIAZEK, L., VERICAT, D., BATALLA, R.J. (2012): Evaluación de los impactos geomorfológicos de una crecida de mantenimiento en el tramo bajo del Ebro. XII Reunión Nacional de Geomorfología, Santander (España)

TENA, A., BATALLA, R.J., VERICAT, D. (2012): Balance sedimentario de un río mediterráneo altamente regulado. XII Reunión Nacional de Geomorfología, Santander (España)

QUESADA, S., TENA, A., GUILLEN, D., VERICAT, A. (2012): Transport of organic persistent microcontaminants associated to suspended particulate material in a large Mediterranean river during a flushing flow. SCARCE 3RD Annual Conference. Bridging toxicants, stressors and Risk-Based management under water scarcity, Valencia (España)

LÓPEZ-TARAZÓN, J.A., LOBERA, G., ANDRES-DOMENECH, I., MARTINEZ-CAPEL, F., MUÑOZ-MAS, R., VALLES, F., TENA, A., VERICAT, D., BATALLA, R.J. (2012): Effects of gravel-minning over morphology, hydraulics and habitats distribution in the Esera River (Ebro Basin). SCARCE 3RD Annual Conference. Bridging toxicants, stressors and Risk-Based management under water scarcity, Valencia (España)

VERICAT, D., SMITH, M., LÓPEZ-TARAZÓN, J.A., TENA, A., BRASINGTON, J., BATALLA, R.J. (2012): Monitoring topographic change in highly erodible landscapes by means of terrestrial laser scanning. European Geosciences Union General Assembly, Vienna (Austria).

RECENT PARTICIPATION IN RESEARCH PROJECTS

PROJECT TITLE: Design and Application of Flushing Flows as Strategy for the Restoration of River's Hydro-Sedimentary Equilibrium. Funding: MICINN, Spain. Code: CGL2009-09770(BTE). Coordination: Ramon J. Batalla (University of Lleida, Spain). Date: 2009-2012

- PROJECT TITLE: Assessing and predicting effects on water quantity and quality in Iberian rivers caused by global change (SCARCE). Funding: SCARCE Consolider Ingenio 2010 (MICINN, Spain) Code: CSD2009-00065. Coordination: Damià Barceló (CSIC-ICRA, Spain). Date: 2009-2014