

Personal impact according to Research Gate, accessed 9 March 2016
39 peer-reviewed ISI indexed papers (4 of which in press, and 3 submitted or in preparation)

Sum of the times cited: 518 (h-index: 14)

Other publications: author and/or editor of 14 text books or chapter

Peer-reviewed ISI papers (2008–2016)

- 39. Ballesteros Cánovas J.A.**; Stoffel M.; Martín-Duque J.F.; Corona C.; Lucía-Vela A. ; Bodoque J.M.; Montgomery D. (in progress). Gully evolution and geomorphic adjustments of badlands to tree planting
- 38.** Manzanedo, R.D. Allan, E.; **Ballesteros-Cánovas, J.A.**; Schenk, F.; Stoffel, M. and Fischer, M. (Submitted). Climbing with climate: the carbon fertilization-temperature interaction promotes European lianas
- 37.** Zaginaev V, **Ballesteros-Cánovas J.A.**, Erokhin S., Matov E., Petrakov D., Stoffel M. (Submitted). Glacial lake outbursts flood reconstruction in the Northern Tien Shan: implications for hazard assessment.
- 36.** Bhattacharyya A., Stoffel M, Shekhar M, **Ballesteros Cánovas J.A.** Trappmann D. (in press). Dendrogeomorphic potential of the Indian Himalayas – case studies of process dating of natural hazards in Kullu valley, Himachal Pradesh. Current Science.
- 35.** Rodriguez-Morata C. **Ballesteros-Cánovas J.A.** Trappmann D. Beniston M. Stoffel (2016). Regional reconstruction of flash flood history in the Guadarrama range (Central System, Spain). Science of Total Environment 550, 406-417.
- 34.** **Ballesteros-Cánovas J.A.**, Stoffel M., Spyt B., Janecka K., Kaczka R Lempa M. (2016). Paleoflood discharge reconstruction in Tatra Mountain streams. Geomorphology. In press
- 33.** **Ballesteros Cánovas J.A.**, Stoffel M, Corona, C.; Schraml K, Gobiet A; Sinabell F; Fuchs S Katina R,. (2016). Debris flow risk analysis of managed torrent based on stochastic life-cycle assessment. Science of Total Environment. In press.
- 32.** Bodoque J.M. Amerigo-M. Díez-Herrero A. García J.A. Cortés B. **Ballesteros-Cánovas J.A.** Olcina-J. (2016). Improvement of resilience of urban areas by integrating social perception in flash-flood risk management. Journal of Hydrology. In press
- 31.** **Ballesteros-Cánovas, J.A.**, Stoffel, M., St George, S., Hirschboeck, K. (2015) Flood records in tree rings: a review. Progress and Physical Geography.1-29.

30. Sánchez-Salguero R., Linares J.C., Camarero J.J., Madrigal-González J., Hevia A., Sánchez-Miranda A., Ballesteros-Cánovas J.A., Alfaro-Sánchez R., García-Cervigón A.I., Bigler C., Rigling A., (2015). Disentangling the effects of competition and climate on individual tree growth: A retrospective and dynamic approach in Scots pine. *Forest Ecology and Management.*, 358: 12-25.
29. Sánchez-Salguero R, Camarero JJ, Hevia A., Madrigal-González J., Linares JC., **Ballesteros-Canovas J.A.**, Sánchez-Miranda A., Alfaro-Sánchez R, Sangüesa-Barreda G., Diego Galván J, Gutierrez E., Génova M, Rigling A. (2015) What drives growth of Scots pine in continental Mediterranean climates: drought, low temperatures or both? *Agricultural and Forest Meteorology.* 206:151-162
28. Génova M, Máyer P, **Ballesteros-Cánovas J**, Rubiales JM, Saz MA, Díez-Herrero A. (2015) Multidisciplinary study of flash floods in the Caldera de Taburiente National Park (Canary Islands, Spain) *Catena.* 131:22–34
27. **Ballesteros-Cánovas J.A.**, Stoffel M., Guardiola Albert C.(2015) XRCT imagery and variograms reveal 3D changes in wood density of riparian trees affected by floods. *Trees-Structure and Function.* 29(4)
26. **Ballesteros-Cánovas, J.A.**, Corona, C., Stoffel, M., Lucia-Vela, A., Bodoque, J.M., (2015): Combining terrestrial laser scanner and exposed root for erosion rate estimation. *Plant and Soil.* DOI: 10.1007/s11104-015-2516-3
25. FERRIO JP, DíEZ-HERRERO A, TARRÉS D, **BALLESTEROS-CÁNOVAS J.A**, AGUILERA M., BODOQUE J.M. (2015). Using stable isotopes of oxygen from tree-rings to study the origin of past flood events: First results from the Iberian Peninsula. *Quaternarie.* 26(1):67-80
24. Bodoque J.M, **Ballesteros Canovas J.A**, Lucia Vela A, Diez Herrero A, Martín Duque JF: *Source of error and uncertainty in sheet erosion rates estimated from dendrogeomorphology.* *Earth Surface Processes and Landforms* 01/2015;
23. **Ballesteros-Canovas J.A**, Czajka B., Janecka K., Lempa M., Kaczka R.J., Stoffel M.: *Flash floods in the Tatra Mountain streams: Frequency and triggers.* *Science of The Total Environment* 01/2015; 511.
22. **Ballesteros-Canovas J.A**, Márquez-Peñaranda J.F., M. Sánchez-Silva, A. Díez-Herrero, V. Ruiz-Villanueva, J.M. Bodoque, M.A. Eguibar, M. Stoffel: *Can tree tilting be used for paleoflood discharge estimations?.* *Journal of Hydrology* 11/2014;
21. **Ballesteros-Canovas J.A**, Rodríguez-Morata C, Garófano-Gómez V, Rubiales J.M, Sánchez-Salguero R, Stoffel M: *Unravelling past flash flood activity in a forested mountain catchment of the Spanish Central System.* *Journal of Hydrology* 529(2):468-479.
20. Stoffel M, Corona C, **Ballesteros-Cánovas J.A**, Bodoque J. M: *Dating and quantification of erosion processes based on exposed roots.* *Earth-Science Reviews* 08/2013; 123:18-35.
19. Bodoque J.M., A. Diez-Herrero, M.A. Eguibar, G. Benito, V. Ruiz-Villanueva, J.A. **Ballesteros-Canovas**: *Challenges in paleoflood hydrology*

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18. Ballesteros-Canovas, J.A. Butler D. Stoffel M.: *R. S. Sigafos's 1961 and 1964 papers on botanical evidence of paleofloods.* Progress in Physical Geography 12/2014;

17. Guardiola-Albert C, J.A. **Ballesteros-Cánovas**, M. Stoffel, A. Díez-Herrero: *How to improve dendrogeomorphic sampling: variogram analyses of wood density using X-ray computed tomography.* Tree-Ring Research 01/2014;

16. Kundzewicz ZW, Stoffel M, Kaczka R, Wyżga B, Niedźwiedz T, Pińskwar I, Ruiz-Villanueva V, Łupikasza E, Czajka B, **Ballesteros-Canovas J.A.**, Małarzewski L., Choryński A., Janecka K., Mikus p.: *Floods at the northern foothills of the Tatra Mountains – A Polish-Swiss research project.* Acta Geophysica 01/2013;

15. Touchan, R.; Meko, D., **Ballesteros, J.A.**; Sánchez-Salguero, R.; Camarero, J.J. (2014) Dendrochronology Course in Valsaín Forest, Segovia, Spain. Tree-ring research.

14. Ruiz-Villanueva, V, Díez-Herrero, A., **Ballesteros-Cánovas, J.A.**; Bodoque, J.M. (2012). Large woody debris potentially recruitment due to landslides, bank erosion and floods in mountain basins: a quantitative estimation approach. River Research and application (accepted: 05/09/2012).

13. Ballesteros-Cánovas, J.A.; Bodoque, J.M.; Lucía, A.; Martín-Duque, J.F.; Díez-Herrero, A.; Ruiz-Villanueva, V.; Rubiales, J.; Genova, M. (2012). Dendrogeomorphology in badlands: methods, case studies and prospects. Catena.

12. DÍEZ-HERRERO, A.; **BALLESTEROS-CÁNOVAS, J.A.**; BODOQUE, J.M.; RUIZ-VILLANUEVA, V. (in press). A new methodological protocol for the use of dendrogeomorphological data in flood risk analysis. Hydrology Research (submitted 28-10-2011; accepted 28-05-2012). HYDROLOGY-D-11-00154.

11. Díez-Herrero, A., **Ballesteros, J.A.**, Ruiz-Villanueva, V., Bodoque, J.M. (in press). Dendrogeomorphological research in Spain applied to flood risk analysis. Geomorphology

10. Ballesteros, J. A., Sanchez-Silva, M., Bodoque, J. M., Díez, A. (2013). An example of integrated approach to flood risk management: the case of Navalunga (Central Spain). Water Resources Management.

9. Ballesteros, J.; Díez-Herrero, A.; Bodoque, J. (2012): Searching for useful non-systematic tree-ring data source for flood hazard analysis using GIS tools. Catena, 92, 130-138

8. Génova, M.M.; **Ballesteros, J.A.**; Díez-Herrero, A.; Martínez-Callejo, (2011): Correlating a documentary record of historical floods with the dendrochronological dating of a wooden deck in the old mint of Segovia (Spain). Geoarchaeology: An International Journal 26 (5), 786-808

7. **Ballesteros, J. A.**, Bodoque, J. M., Díez, A., Sanchez-Silva, M., Stoffel, M., (2011): Calibration of floodplain roughness and estimation of palaeoflood discharge based on tree-ring evidence and hydraulic modelling. *Journal of Hydrology*, 403 (1-2), 103-115.

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5. **Ballesteros-Cánovas, J.A.**; Eguibar, M.; Bodoque, J.M.; Díez-Herrero, A; Stoffel, M. Gutierrez-Pérez, I. (2011). Estimating flash flood discharge in an ungauged mountain catchment with 2D hydraulic models and dendrogeomorphic paleostage indicators. *Hydrological Processes*, 25, 970–979, DOI: 10.1002/hyp.7888.

4. **Ballesteros, J.A.**; Stoffel, M.; Bollschweiler, M.; Bodoque, J.M.; Díez-Herrero, A (2010): Flash-flood impacts cause changes in wood anatomy of *Alnus glutinosa*, *Fraxinus angustifolia* and *Quercus pyrenaica*. *Tree Physiology*, 30, 773-781.

3. Ruiz-Villanueva, V.; Díez-Herrero, A; Stoffel, M.; Bollschweiler, M.; Bodoque, J.M.; **Ballesteros, J.A.** (2010). Dendrogeomorphic analysis of flash floods in a small ungauged mountain catchment (Central Spain). *Geomorphology*, 118, 383-392.

2. **Ballesteros, J.A.**; Stoffel, M.; Bodoque, J.M.; Bollschweiler, M.; Hitz, O. Díez-Herrero, A (2010). Wood anatomy of *Pinus pinaster* Ait. following wounding by flash floods. *Tree-Ring Research*, 66(2), 93-103.

1. Rubiales, J.M., Bodoque, J.M.; **Ballesteros, J.A.**, Díez-Herrero, A. (2008). Response of *Pinus sylvestris* roots to sheet-erosion exposure: an anatomical approach. *Natural Hazards and Earth System Sciences*, 8, 223-231.

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1. **Ballesteros-Cánovas J.A** Kaczka R., Spyt B., Janecka K., Stoffel M (2016). Deciphering Flood Event Information from Tree Data in Tatra Mountains: Hazard Implications. Springer (in press).

2. Ballesteros-Canovas and Stoffel (2016) Biological Dating (in press)

3. Stoffel M, **Ballesteros Canovas J.A.**, Corona C: *Dendrochronology: Surficial Processes*. Encyclopedia of Scientific Dating Methods, Edited by W. Jack Rink, J. Thompson, 01/2014: pages 1-12; Springer., ISBN: 978-94-007-6326-5

4. Rubiales J.M, Díez-Herrero A., Génova M., **Ballesteros-Canovas, J.A.**, Lea de Nascimento, Fernández Palacios JM: *Late Holocene wood remains from alluvial/colluvial deposits in the Caldera de Taburiente National Park (La*

Palma, Canary Islands). CLIMATE CHANGE PERSPECTIVES FROM THE ATLANTIC: PAST, PRESENT AND FUTURE, Edited by Jose María Fernández-Palacios, Lea de Nascimento, José Carlos Hernández, Sabrina Clemente, Albano González, Juan Pedro Díaz, 01/2013;

5. **BALLESTEROS, J.A.**; BODOQUE, J.M.; DÍEZ-HERRERO, A.; GÉNOVA, M.; GUTIÉRREZ, E.; MOYA, J.; MUNTÁN, E.; OLLER, P.; RUBIALES, J.M.; RUIZ-VILLANUEVA, V.; SAZ, M.A. (2010). *Dendrogeomorfología. Los árboles, fuente de conocimiento de los procesos y desastres naturales*. Cuadernos de Arboricultura nº 5. Asociación Española de Arboricultura, Diputación Provincial de Toledo y Sociedad Española de Geomorfología, Valencia, 119 pp. ISBN 978-84-96211-47-6; D.L. V-1180-2010.
6. **BALLESTEROS, J.A.**, SANTANDER, C.F., SÁNCHEZ-SILVA, M. BODOQUE, J.M A. DÍEZ-HERRERO, A. 2010 Gestión de riesgos derivados de eventos naturales sobre la infraestructura. Mapfre, Madrid, 63 pp.
7. Chamizo-Borreguero, M; **Ballesteros, J.A**; Herrero Barrero, T; Jiménez Madrid, A (coord.) (2008) I Jornadas de investigadores en formación en Ciencias de la Tierra; Libro de Resúmenes IIJIFCyT; IGME, Madrid; 96pp.
8. Herrero Barrero, T; Jiménez Madrid, A; **BALLESTEROS CÁNOVAS, J.A.**; Chamizo-borreguero, M; Álvarez-Areces, E. (coord.) (2009) II Jornadas de investigadores en formación en Ciencias de la Tierra; Libro de Resúmenes IIJIFCyT; IGME, Madrid; 92pp.
9. DÍEZ HERRERO, A. Y **BALLESTEROS, J.A.** (2010). Procesos activos. Los riesgos geológicos. El riesgo por avenidas e inundaciones. En: C. MARCHÁN (Coord. Gral.), *Atlas del medio natural y de los recursos hídricos de la provincia de Ávila*. Capítulo 21, págs. 201-210, Instituto Geológico y Minero de España y Excma. Diputación de Ávila, 240 pp.+3 mapas+ CD-ROM. ISBN: 978-84-7840-796-5; NIPO: 474-0-002-7; D.L.: M-9068-2010.
10. **BALLESTEROS, J.A.**; LAIN-HUERTA, L.; MINTEGUI, J.A. (2007). Predicción espacial de aludes en el Parque Natural del Postes- Maladetas (Huesca) y su aplicación a la planificación territorial. In: I. GALINDO JIMÉNEZ, L. LAÍN HUERTA y M. LLORENTE ISIDRO (Eds.), *El estudio y la gestión de los riesgos geológicos*. Publicaciones del Instituto Geológico y Minero de España, Serie: Medio Ambiente. Riesgos Geológicos, nº 12, Capítulo 10, 149-159, Madrid, IGME y Consorcio de Compensación de Seguros (MEH). ISBN: 978-84-7840-755-2; NIPO: 657-08-022-0; D.L. M-15342-2008
11. **BALLESTEROS CÁNOVAS, J.A.**; DÍEZ-HERRERO, A.; y RUIZ-VILLANUEVA, V. (2008). Técnicas y fuentes de información botánicas. In: DÍEZ-HERRERO, A.; LAIN-HUERTA, L. y LLORENTE-ISIDRO, M. (2008). *Mapas de peligrosidad por avenidas e inundaciones. Guía metodológica para su elaboración*. Publicaciones del Instituto Geológico y Minero de España, Serie Riesgos Geológicos/Geotecnia nº 1, págs. 96-103, Madrid. D.L. M-46538-2008; ISBN 978-84-7840-770-5; NIPO 657-08-026-2.
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No. 2, pp. 98-104, Madrid. D.L. M-50313-2009; ISBN 978-84-7840-813-9; NIPO 474-09-044-5.

13. **BALLESTEROS CÁNOVAS, J.A.**; BODOQUE DEL POZO, J.M.; DÍEZ-HERRERO, A. 2011. Aplicación de las técnicas dendrogeomorfológicas al estudio de las avenidas torrenciales. *Cuadernos de la Sociedad Española de Ciencias Forestales*, 32, 77-82. En García Rodríguez, J.L.; Navarro Hevia, J.; Mogil Manso, J. y Robredo Sánchez, J.C. (Eds.), *Actas de la II Reunión sobre Hidrología Forestal*. Madrid, 25 y 26 de septiembre de 2008. Sociedad Española de Ciencias Forestales, Madrid, 176 pp. ISSN: 1575-2410; ISBN: 978-84-937964-2-6; D.L.: PO 690-2011.
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Other Selected Publications

1. DÍEZ-HERRERO, A.; **BALLESTEROS, J.A.**; BODOQUE, J.M.; EGUÍBAR, M.A.; FERNÁNDEZ, J.A.; GÉNOVA, M.; LAÍN, L.; LLORENTE, M.; RUBIALES, J.M.; STOFFEL, M. (2008). Mejoras en la estimación de la frecuencia y magnitud de avenidas torrenciales mediante técnicas dendrogeomorfológicas. *Boletín Geológico y Minero*, 118 (4), 789-802.
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3. DÍEZ HERRERO, A.; LLORENTE, M.; **BALLESTEROS, J.A.**; RUIZ, V. (2009). Riesgos por avenidas e inundaciones fluviales. *Enseñanza de las Ciencias de la Tierra*, 17.3 (Monográfico: Riesgos geológicos externos), 254-263. ISSN: 1132-9157; D.L.: M-27329-1992.
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Contribution to International Congress

1. DÍEZ-HERRERO, A.; MOYA, J.; COROMINAS, J.; BODOQUE, J.M.; MUNTÁN, E.; GUTIÉRREZ, E.; OLLER, P.; FURDADA, G.; VILAPLANA, J.M.; MARTÍN-DUQUE, J.F.; RUBIALES, J.M.; GÉNOVA, M.; GARCÍA, C.; MARTÍ, G.; **BALLESTEROS, J.A.** (2007). Dendrogeomorphological studies for natural hazards research in the Iberian Peninsula (Spain and Andorra). *Geophysical Research Abstracts*, Vol. 9, 07036. Sref-ID: 1607-7962/gra/EGU2007-A-07036. Abstracts of the Contributions of the EGU General Assembly 2007, Vienna (Austria), 15-20 April 2007. European Geosciences Union. ISSN: 1029-7006.

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4. RUIZ-VILLANUEVA, V.; **BALLESTEROS J.A.**; DÍEZ-HERRERO, A. AND BODOQUE, J. M. (2009). Improving the Flash Flood Frequency Analysis using dendrogeomorphological evidences in the Arenal River crossing Arenas de San Pedro Village (Spanish Central System). *Geophysical Research Abstracts*, Vol. 11, EGU2009-5589-4. Abstracts of the Contributions of the EGU General Assembly 2009, Vienna (Austria), 19-24 April 2009. European Geosciences Union.
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6. RUIZ-VILLANUEVA, V.; DÍEZ-HERRERO, A.; BODOQUE DEL POZO, J.M., FERNÁNDEZ-GARCÍA, P. AND **BALLESTEROS-CÁNOVAS, J.A.** (2009). The significance of avulsion phenomena in the alluvial filling configuration of a mountain stream: Venero Claro (Central Spain). *Geophysical Research Abstracts*, Vol. 11, EGU2009-11070. Abstracts of the Contributions of the EGU General Assembly 2009, Vienna (Austria), 19-24 April 2009. European Geosciences Union.
7. **BALLESTEROS CÁNOVAS J.**, STOFFEL M., BODOQUE J., DÍEZ-HERRERO A. (2009). Anatomical evidence of flash flood events in different Mediterranean tree species. Biogeomorphology. Poster. *Abstracts 7th International Conference on Geomorphology (ANZIAG) 6 - 11 July, 2009, Ancient Landscapes - Modern Perspectives, Australian and New Zealand Geomorphology Group (Inc.) Registered No. A0044686A.. ISBN 1 877040 74 6.*
8. **BALLESTEROS-CÁNOVAS J.**, EGUÍBAR M., BODOQUE J., GUTIÉRREZ-PÉREZ I., DÍEZ-HERRERO A. (2009). Combining Terrestrial Laser Scanning and dendrogeomorphological data for flash flood magnitude reconstruction. Terrestrial Laser Scanning within Geomorphology. Oral. *Abstracts 7th International Conference on Geomorphology (ANZIAG) 6 - 11 July, 2009, Ancient Landscapes - Modern Perspectives, Australian and New*

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9. DÍEZ-HERRERO A., **BALLESTEROS CÁNOVAS J.**, BODOQUE J., RUIZ-VILLANUEVA V. (2009). Using dendrogeomorphological evidence for flood magnitude and frequency estimates. Biogeomorphology. Poster. *Abstracts 7th International Conference on Geomorphology (ANZIAG) 6 - 11 July, 2009, Ancient Landscapes - Modern Perspectives*, Australian and New Zealand Geomorphology Group (Inc.) Registered No. A0044686A.. ISBN 1 877040 74 6.
10. RUÍZ-VILLANUEVA V., **BALLESTEROS CÁNOVAS J.**, DÍEZ-HERRERO A., BODOQUE J. (2009). Improving the Flash Flood Frequency Analysis using dendrogeomorphology in the Arenal River (Spanish Central System). Biogeomorphology. Poster. *Abstracts 7th International Conference on Geomorphology (ANZIAG) 6 - 11 July, 2009, Ancient Landscapes - Modern Perspectives*, Australian and New Zealand Geomorphology Group (Inc.) Registered No. A0044686A.
11. RUIZ-VILLANUEVA V., BODOQUE J., DÍEZ-HERRERO A., **BALLESTEROS-CÁNOVAS J.** (2009). Spatial and temporal rainfall variability in a small river catchment of the Spanish Central System. Functioning of Small Catchments in Morphoclimatic Zones. Poster. *Abstracts 7th International Conference on Geomorphology (ANZIAG) 6 - 11 July, 2009, Ancient Landscapes - Modern Perspectives*, Australian and New Zealand Geomorphology Group (Inc.) Registered No. A0044686A. . ISBN 1 877040 74 6.
12. BODOQUE J., **BALLESTEROS J.**, RUBIALES J., MARTÍN-DUQUE J., DÍEZ-HERRERO A., GENOVA M. (2009). Re-evaluating sheet erosion rates in a popular trekking trail located at the Spanish Central System. Human Impact on the Landscape. Poster. *Abstracts 7th International Conference on Geomorphology (ANZIAG) 6 - 11 July, 2009, Ancient Landscapes - Modern Perspectives*, Australian and New Zealand Geomorphology Group (Inc.) Registered No. A0044686A. ISBN 1 877040 74 6.
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