

## List of articles published in peer reviewed journals

1. Areu-Rangel O.S., González-Cao J., Crespo A.J.C. Bonasia R. 2019. Numerical modelling of hydrological safety assignment in dams with IBER. *Sustain. WaterResour. Manag.*, 5(1), 347-358. DOI:10.1007/s40899-017-0135-2.
2. Azorin-Molina, C., Melisa Menendez, Adrian Acevedo, Vicente-Serrano, S.M., Tim R. McVicar, Emilio Cuevas, Lorenzo Minola, Deliang Chen. (2018) Land and ocean near-surface wind speed trends over the Canary Islands and surrounding Atlantic Ocean, 1948-2014. *Climate Dynamics*. 50, 4061-4081.
3. Begueria, S.; Miquel Tomas-Burguera; Roberto Serrano-Notivoli; Dhais Peña-Angulo; Vicente-Serrano, S.M.; González-Hidalgo José-Carlos Gap filling of monthly temperature data and its effect on climatic variability and trends. *Journal of Climate*, under review.
4. Bento V.A., Gouveia C.M., DaCamara C.C., Libonati R., Trigo I.F., 2019. The roles of NDVI and Land Surface Temperature for monitoring vegetation health over dry regions. Submitted to *Global and Planetary Change*.
5. Bento, V.A., Gouveia, C.M., DaCamara, C.C., Trigo, I.F. 2018. A climatological assessment of drought impact on vegetation health index. *Agricultural and Forest Meteorology*, 259, pp. 286-295. DOI: 10.1016/j.agrformet.2018.05.014
6. Bento, V.A., Trigo, I.F., Gouveia, C.M., DaCamara, C.C. 2018. Contribution of Land Surface Temperature (TCI) to Vegetation Health Index: a comparative study using clear sky and all-weather climate data records. *Remote Sensing*, 10(9), 1324. DOI: 10.3390/rs10091324
7. Bertolin, C., Domínguez-Castro, F. 2019. A Noctilucent Cloud Observation prior to Krakatoa Eruption. *Climatic Change*, under review.
8. Blamey, R.C., Ramos, A.M., Trigo, R.M., Tomé, R., Reason, C.J.C. 2018. The influence of atmospheric rivers over the South Atlantic on winter rainfall in South Africa. *Journal of Hydrometeorology*, 19 (1), pp. 127-142. DOI: 10.1175/JHM-D-17-0111.1
9. Bonasia, R., Areu-Rangel, O.S., Tolentino, D., Mendoza-Sánchez, I., González-Cao, J., Klapp, J. 2017. Flooding hazard assessment at Tulancingo (Hidalgo, Mexico). *Journal of Flood Risk Management*, 11 (52), 1116-1124. DOI: 10.1111/jfr3.12312
10. Burcea, S., Cică, R., and Bojariu, R.: Radar-derived convective storms' climatology for the Prut River basin: 2003–2017, *Nat. Hazards Earth Syst. Sci.*, 19, 1305-1318, <https://doi.org/10.5194/nhess-19-1305-2019>, 2019.
11. Ceric, D., Nieto, R., Ramos, A.M., Drumond, A., Gimeno, L. 2017. Wet spells and associated moisture sources anomalies across Danube River Basin. *Water*, 9 (8), art. no. 615 DOI: 10.3390/w9080615
12. Domínguez-Castro F., Vaquero J.M. 2017. The sunspot observations by Toaldo and Comparetti at November 1779. *The Observatory* 137, 1260.
13. Domínguez-Castro, F. 2018. An early record of ball lightning: Oliva (Spain), 1619. *History of Geo- and Space Sciences*, 9 (1), pp. 79-83.DOI: 10.5194/hgss-9-79-2018
14. Domínguez-Castro, F., Gallego, M.C., Vaquero, J.M. 2017. Sunspots sketches during the solar eclipses of 9th January and 29th December of 1777 in Mexico. *Journal Space Weather and Space Climate* 7, A15.
15. Domínguez-Castro, F., García-Herrera, R., Vicente-Serrano, S.M. 2018. Wet and dry extremes in Quito (Ecuador) since the 17th century. *International Journal of Climatology*, 38 (4), pp. 2006-2014. DOI: 10.1002/joc.5312

16. Domínguez-Castro, F., González, A., García-Herrera, R., Vaquero, J.M., El Kenawy, A., Peña-Gallardo, M., Vicente-Serrano, S.M. 2018. New documentary evidence of the Tungurahua eruption on April 23, 1773, Ecuador. *Natural Hazards*, 94 (3), pp. 1463-1473. DOI: 10.1007/s11069-018-3474-x
17. Domínguez-Castro, F., Vaquero, J.M., Gallego, M.C., Farrona, A.M.M., Antunã-Marrero, J.C., Cevallos, E.E., Herrera, R.G., De La Guiá, C., Mejía, R.D., Naranjo, J.M., Del Rosario Prieto, M., Ramos Guadalupe, L.E., Seiner, L., Trigo, R.M., Villacís, M. 2017. Early meteorological records from Latin-America and the Caribbean during the 18th and 19th centuries. *Scientific Data*, 4, art. no. 170169 DOI:10.1038/sdata.2017.169
18. Domínguez-Castro, F., Vicente-Serrano, S., Jaagus, J., Khorchani, M., Peña-Gallardo, M., 2017. Spatial and temporal variability of droughts in Estonia (1951-2015). First International Electronic Conference on the Hydrological Cycle. Conference Proceedings, DOI: 10.3390/CHyCle-2017-04883
19. Domínguez-Castro, F., Vicente-Serrano, S.M., López-Moreno, J.I., Correa, K., Ávalos, G., Azorin-Molina, C., El Kenawy, A., Tomas-Burguera, M., Navarro-Serrano, F., Peña-Gallardo, M., Gimeno, L., Nieto, R. 2018. Mapping seasonal and annual extreme precipitation over the Peruvian Andes. *International Journal of Climatology*, 38 (15), pp. 5459-5475. DOI: 10.1002/joc.5739
20. Dominguez-Castro, F., Vicente-Serrano, S.M., Tomás-Burguera M., Peña-Gallardo, M., Beguería, S., El Kenawy, A., Luna, Y., Morata, A. 2019. High-spatial resolution probability maps of drought duration and magnitude across Spain. *Natural Hazards and Earth System Science*. 19, 611–628.
21. Domínguez-Castro, F., Vicente-Serrano, S.M., Tomás-Burguera, M., Peña-Gallardo, M., Beguería, S., El Kenawy, A., Luna, Y., Morata, A., 2019. High spatial resolution climatology of drought events for Spain: 1961-2014. *International Journal of Climatology*. DOI: 10.1002/joc.6126
22. Domínguez-Castro, F.; María Cruz Gallego; José Manuel Vaquero; Ricardo García-Herrera; Marina Peña-Gallardo; Ahmed El Kenawy; Vicente-Serrano S.M. 2019. Twelve years of daily weather descriptions in North-America in the 18th century (Mexico City, 1775-1786). *Bulletin of the American Meteorological Society*. DOI: 10.1175/BAMS-D-18-0236.1
23. Drumond, A., Milica Stojanovic, Raquel Nieto, Vicente-Serrano, S.M., Luis Gimeno 2019. Linking Anomalous Moisture Transport and Drought Episodes in the IPCC Reference Regions. *Bulletin of the American Meteorological Society*. DOI: 10.1175/BAMS-D-18-0111.1
24. Eiras-Barca, J., Ramos, A.M., Pinto, J.G., Trigo, R.M., Liberato, M.L.R., Miguez-Macho, G. 2018. The concurrence of atmospheric rivers and explosive cyclogenesis in the North Atlantic and North Pacific basins. *Earth System Dynamics*, 9 (1), pp. 91-102. DOI: 10.5194/esd-9-91-2018
25. El Kenawy, A.M., Lopez-Moreno, J.I., McCabe, M.F., Robaa, S.M., Domínguez-Castro, F., Peña-Gallardo, M., Trigo, R.M., Hereher, M.E., Al-Awadhi, T., Vicente-Serrano, S.M. 2019. Daily temperature extremes over Egypt: Spatial patterns, temporal trends, and driving forces. *Atmospheric Research*, 226, pp. 219-239. DOI: 10.1016/j.atmosres.2019.04.030

26. El Kenawy, A.M., McCabe, M.F., Lopez-Moreno, J.I., Hathal, Y., Robaa, S.M., Al Budeiri, A.L., Jadoon, K.Z., Abouelmagd, A., Eddenjal, A., Domínguez-Castro, F., Trigo, R.M., Vicente-Serrano, S.M. 2019. Spatial assessment of the performance of multiple high-resolution satellite-based precipitation data sets over the Middle East. *International Journal of Climatology*, 39 (5), pp. 2522-2543. DOI: 10.1002/joc.5968
27. Fernández-Fernández, M.I., Gallego, M.C., Domínguez-Castro, F., Trigo, R.M., Vaquero, J.M. 2017. The climate in Zafra from 1750 to 1840: temperature indexes from documentary sources. *Climatic Change*, 141 (4), pp. 671-684. DOI: 10.1007/s10584-017-1910-7
28. García-Feal, O., González-Cao, J., Gómez-Gesteira, M., Cea, L., Domínguez, J.M., Formella, A. 2018. An accelerated tool for flood modelling based on Iber. *Water*, 10 (10), art. no. 1459. DOI: 10.3390/w10101459
29. García-Herrera, R., Garrido-Pérez, J.M., Barriopedro, D., Ordóñez, C., Vicente-Serrano, S.M., Nieto, R., Gimeno, L., Sorí, R., Yiou, P., (2019) The European 2016/2017 drought. *Journal of Climate*. 32, 3169-3187.
30. Gazol, A., Camarero, J.J., Vicente-Serrano, S.M., Sánchez-Salguero, R., Gutiérrez, E., de Luis, M., Sangüesa-Barreda, G., Novak, K., Rozas, V., Tíscar, P.A., Linares, J.C., Martín-Hernández, N., Martínez del Castillo, E., Ribas, M., García-González, I., Silla, F., Camisón, A., Génova, M., Olano, J.M., Longares, L.A., Hevia, A., Tomás-Burguera, M., Galván, J.D. 2018. Forest resilience to drought varies across biomes. *Global Change Biology*, 24 (5), pp. 2143-2158. DOI: 10.1111/gcb.14082
31. Gerinhas, J.L., Trigo, R.M., Libonati, R., Castro, L.C.O., Sousa, P.M., Coelho, C.A.S., Peres, L.F., Magalhães, M.D.A.F.M. 2019. Characterizing the atmospheric conditions during the 2010 heatwave in Rio de Janeiro marked by excessive mortality rates. *Science of the Total Environment* 650: 796-808.
32. González-Cao, J., Altomare, C., Crespo, A.J.C., Domínguez, J.M., Gómez-Gesteira, M., Kisacik, D. 2019. On the accuracy of DualSPHysics to assess violent collisions with coastal structures. *Computers and Fluids*, 179, pp. 604-612. DOI: 10.1016/j.compfluid.2018.11.021
33. González-Cao, J., García-Feal, O., Domínguez, J.M., Crespo, A.J.C., Gómez-Gesteira, M. 2018. Analysis of the hydrological safety of dams combining two numerical tools: Iber and DualSPHysics. *Journal of Hydrodynamics*, 30 (1), pp. 87-94. DOI: 10.1007/s42241-018-0009-6
34. González-Hidalgo, J.C., Vicente-Serrano, S.M., Peña-Angulo, D., Salinas, C., Tomas-Burguera, M., Beguería, S. 2018. High-resolution spatio-temporal analyses of drought episodes in the western Mediterranean basin (Spanish mainland, Iberian Peninsula). *Acta Geophysica*, 66 (3), pp. 381-392. DOI: 10.1007/s11600-018-0138-x
35. Jaagus, J., Briede, A., Rimkus, E., Sepp, M., 2018. Changes in precipitation regime in the Baltic countries in 1966–2015. *Theoretical and Applied Climatology*, 131, 433-443. DOI: 10.1007/s00704-016-1990-8
36. Jaagus, J., Sepp, M., Tamm, T., Järvet, A., Möisja, K. 2017. Trends and regime shifts in climatic conditions and river runoff in Estonia during 1951-2015. *Earth System Dynamics*, 8 (4), pp. 963-976. DOI: 10.5194/esd-8-963-2017
37. Khorchani, M., Martin-Hernandez, N., Vicente-Serrano, S.M., Azorin-Molina, C., Garcia, M., Domínguez-Duran, M.ª.A., Reig, F., Peña-Gallardo, M., Domínguez-Castro, F. 2018.

- Average annual and seasonal land surface temperature, spanish peninsular. *Journal of Maps*, 14 (2), pp. 465-475. DOI: 10.1080/17445647.2018.1500316
38. Khorchani, M., Vicente-Serrano, S.M., Azorin-Molina, C., Garcia, M., Martin-Hernandez, N., Peña-Gallardo, M., El Kenawy, A., Domínguez-Castro, F. 2018. Trends in LST over the peninsular Spain as derived from the AVHRR imagery data. *Global and Planetary Change*, 166, pp. 75-93. DOI: 10.1016/j.gloplacha.2018.04.006
  39. Lavers, D.A., Richardson, D.S., Ramos, A.M., Zsoter, E., Pappenberger, F., Trigo, R.M. 2018. Earlier awareness of extreme winter precipitation across the western Iberian Peninsula. *Meteorological Applications*, 25 (4), pp. 622-628. DOI: 10.1002/met.1727
  40. Lopez-Moreno, J.I.; Francisco Navarro-Serrano; Cesar Azorín-Molina; Pedro Sánchez-Navarrete; Esteban Alonso-González; Ibai Rico; Enrique Morán-Tejeda; Samuel Buisan; Jesús Revuelto-Benedía; Marc Pons; Vicente-Serrano, S.M., (2019) Air and wet bulb temperature lapse rates and their impact on snowmaking in a Pyrenean ski area. *Theoretical and Applied Climatology*. 135:1361–1373.
  41. Martin, M.L., Antonio Manzano, Santiago Beguería, Ana Morata, M. Yolanda Luna, Vicente-Serrano, S.M., Miguel Angel Clemente Analysis of the atmospheric circulation pattern effects over SPEI drought index in Spain. *Atmospheric Research*. 230: 104630.
  42. Moreira E., Russo A., Trigo R.M. 2018. Monthly prediction of droughts classes using log-linear models under influence of NAO for early-warning of drought and water management. *Water* 10, 65.doi: oi:10.3390/w10010065
  43. Nieto, R., Salah. Z., Drumond, A., Gimeno, L., Vicente-Serrano, S.M., 2018. A Lagrangian analysis of the moisture budget over the Fertile Crescent for two intense drought episodes. *Journal of Hydrology* 560, 382-395
  44. Oliva, M., Ruiz-Fernández, J., Barriendos, M., Benito, G., Cuadrat, J.M., Domínguez-Castro, F., García-Ruiz, J.M., Giralt, S., Gómez-Ortiz, A., Hernández, A., López-Costas, O., López-Moreno, J.I., López-Sáez, J.A., Martínez-Cortizas, A., Moreno, A., Prohom, M., Saz, M.A., Serrano, E., Tejedor, E., Trigo, R., Valero-Garcés, B., Vicente-Serrano, S.M. 2018. The Little Ice Age in Iberian mountains. *Earth-Science Reviews*, 177, pp. 175-208. DOI: 10.1016/j.earscirev.2017.11.010
  45. Páscoa, P., Gouveia, C.M., Russo, A., Trigo, R.M. 2017. Drought trends in the Iberian Peninsula over the last 112 years. *Advances in Meteorology*, 2017, art. no. 4653126 DOI: 10.1155/2017/4653126
  46. Peña-Gallardo, M., Vicente-Serrano, S.M., Beguería, S. Fernando Domínguez-Castro, 2019. The impact of drought on the productivity of two rainfed crops in Spain. *Natural Hazards and Earth System Science*. DOI: 10.5194/nhess-2019-1
  47. Peña-Gallardo, M., Vicente-Serrano, S.M., Camarero, J.J., Gazol, A., Sánchez-Salguero, R., Domínguez-Castro, F., El Kenawy, A., Beguería-Portugés, S., Gutiérrez, E., de Luis, M., Sangüesa-Barreda, G., Novak, K., Rozas, V., Tíscar, P.A., Linares, J.C., del Castillo, E.M., Matamoros, M.R., García-González, I., Silla, F., Camisón, Á., Génova, M., Olano, J.M., Longares, L.A., Hevia, A., Galván, J.D. 2018. Drought sensitiveness on forest growth in peninsular Spain and the Balearic Islands. *Forests*, 9 (9), art. no. 524. DOI: 10.3390/f9090524
  48. Peña-Gallardo, M., Vicente-Serrano, S.M., Domínguez-Castro, F., Quiring, S., Svoboda, M., Beguería, S., Hannaford, J. 2018. Effectiveness of drought indices in identifying

- impacts on major crops across the USA. *Climate Research*, 75 (3), pp. 221-240. DOI: 10.3354/cr01519
49. Peña-Gallardo, M., Vicente-Serrano, S.M., Hannaford, J., Lorenzo-Lacruz, J., Svoboda, M., Domínguez-Castro, F., Maneta, M., Tomas-Burguera, M., Kenawy, A.E. 2019. Complex influences of meteorological drought time-scales on hydrological droughts in natural basins of the contiguous United States. *Journal of Hydrology*, 568, pp. 611-625. DOI: 10.1016/j.jhydrol.2018.11.026
50. Peña-Gallardo, M., Vicente-Serrano, S.M., Quiring, S., Svoboda, M., Hannaford, J., Tomas-Burguera, M., Martín-Hernández, N., Domínguez-Castro, F., El Kenawy, A. 2019. Response of crop yield to different time-scales of drought in the United States: Spatio-temporal patterns and climatic and environmental drivers. *Agricultural and Forest Meteorology*, 264, pp. 40-55. DOI: 10.1016/j.agrformet.2018.09.019
51. Potopová, V., Cazac, V., Boinean, B., Soukup, J., Trnka, M. 2019. Application of hydroclimatic drought indicators in the transboundary Prut River basin. *Theoretical and Applied Climatology*, 137 (3-4), 3103-3121. DOI: 10.1007/s00704-019-02789-w
52. Potopová, V., Štěpánek, P., Zahradníček, P., Farda, A., Türkott, L., Soukup, J. 2018. Projected changes in the evolution of drought on various timescales over the Czech Republic according to Euro-CORDEX models. *International Journal of Climatology*, 38, pp. e939-e954. DOI: 10.1002/joc.5421
53. Ramos A.M., Wilson A.M., Deflorio M.J., Warner M.D., Barnes, E., Garreaud R., Gorodetskaya I.V., Lavers, D.A., Moore, D., Payne, A., Smallcomb, C., Sodemann, H., Wehner M., Ralph, M.J. (2019) 2018 International Atmospheric Rivers Conference: Multi-disciplinary studies and high-impact applications of atmospheric rivers. *Atmospheric Science Letters*, e935. DOI: 10.1002/asl.935
54. Ramos, A.M., Blamey, R.C., Algarra, I., Nieto, R., Gimeno, L., Tomé, R., Reason, C.J.C., Trigo, R.M. 2019. From Amazonia to southern Africa: atmospheric moisture transport through low-level jets and atmospheric rivers. *Annals of the New York Academy of Sciences*, 1436 (1), pp. 217-230. DOI: 10.1111/nyas.13960
55. Ramos, A.M., Martins, M.J., Tomé, R., Trigo, R.M. 2018. Extreme Precipitation Events in Summer in the Iberian Peninsula and Its Relationship With Atmospheric Rivers. *Frontiers in Earth Science*, 6, art. no. 110. DOI: 10.3389/feart.2018.00110
56. Rapolaki, R., Blamey, R.C., Hermes, J., Reason, C.J.C. 2019. A classification of synoptic weather patterns linked to extreme rainfall over the Limpopo River Basin in southern Africa. *Climate Dyn.*, DOI: 10.1007/s00382-019-04829-7
57. Ribeiro A.F.S., Russo A., Gouveia C.M., Páscoa P. (2018) Modelling drought-related yield losses in Iberia using remote sensing and multiscalar indices, *Theoretical and Applied Climatology*, 1-18, doi: 10.1007/s00704-018-2478-5
58. Ribeiro, A.F.S., Russo, A., Gouveia, C.M., Páscoa, P., 2019. Copula-based agricultural drought risk of rainfed cropping systems. *Agricultural Water Management*, DOI: 10.1016/j.agwat.2019.105689
59. Ribeiro, A.F.S., Russo, A., Gouveia, C.M., Páscoa, P., Pires, C.A.L., 2019. Probabilistic modelling of the dependence between rainfed crops and drought hazard. *Nat. Hazards Earth Syst. Sci. Discuss.*, doi:10.5194/nhess-2019-37

60. Rimkus, E., Briede, A., Jaagus, J., Stonevicius, E., Kilpys, J., Viru, B., 2018. Snow cover regime and its changes in Lithuania, Latvia, and Estonia. *Boreal Environment Research*, 23, 193-208.
61. Rivoire, P., Yves Tramblay, Luc Neppel, Elke Hertig, and Vicente-Serrano, S.M., (2019). Impact of the dry day definition on Mediterranean extreme dry spells analysis. *Natural Hazards and Earth System Science*. 19, 1629-1638.
62. Russo A., Gouveia C.M., Dutra E., Soares P.M.M., Trigo R.M. 2019 The synergy between drought and extremely hot summers in the Mediterranean. *Environmental Research Letters*, 14, 014011, doi: 10.1088/1748-9326/aaf09e
63. Russo, A., Gouveia, C.M., Páscoa, P., DaCamara, C.C., Sousa, P.M., Trigo, R.M. 2017. Assessing the role of drought events on wildfires in the Iberian Peninsula. *Agricultural and Forest Meteorologu* 237-238: 50-59, doi: 10.1016/j.agrformet.2017.01.021
64. Salah, Z., Nieto, R., Drumond, A., Gimeno, L., Vicente-Serrano, S.M. 2018. A Lagrangian analysis of the moisture budget over the Fertile Crescent during two intense drought episodes. *Journal of Hydrology*, 560, pp. 382-395. DOI: 10.1016/j.jhydrol.2018.03.021
65. Sánchez-Benítez, A., García-Herrera, R., Barriopedro, D., Sousa, P.M., Trigo, R.M. 2018. June 2017: The Earliest European Summer Mega-heatwave of Reanalysis Period. *Geophysical Research Letters*, 45 (4), pp. 1955-1962. DOI: 10.1002/2018GL077253
66. Sorí, R., Nieto, R., Drumond, A., Vicente-Serrano, S.M., Gimeno, L. 2017. The atmospheric branch of the hydrological cycle over the Indus, Ganges, and Brahmaputra river basins. *Hydrology and Earth System Sciences*, 21 (12), pp. 6379-6399. DOI: 10.5194/hess-21-6379-2017
67. Sorí, R., Nieto, R., Vicente-Serrano, S.M., Drumond, A., Gimeno, L. 2017. A Lagrangian perspective of the hydrological cycle in the Congo River basin. *Earth System Dynamics*, 8 (3), pp. 653-675. DOI: 10.5194/esd-8-653-2017
68. Sousa P.M., Trigo, R.M., Barriopedro, D. Soares, P.M.M., Ramos, A.M., Liberato, M.L.R. 2017. Responses of European precipitation distributions and regimes to different blocking locations. *Climate Dynamics* 48 (3-4): 1141-1160, doi:10.1007/s00382-016-3132-5
69. Sousa, P.M., Blamey, R.C., Reason, C.J.C., Ramos, A.M., Trigo, R.M. 2018. The 'Day Zero' Cape Town drought and the poleward migration of moisture corridors. *Environmental Research Letters*, 13 (12), art. no. 124025. DOI: 10.1088/1748-9326/aaebc7
70. Sousa, P.M., Trigo, R.M., Barriopedro, D., Soares, P.M.M., Santos, J.A. 2018. European temperature responses to blocking and ridge regional patterns. *Climate Dynamics* 50(1-2): 457-477, doi: 10.1007/s00382-017-3620-2
71. Stojanovic, M., Drumond, A., Nieto, R., Gimeno, L. 2017. Moisture transport anomalies over the Danube River basin during two drought events: A Lagrangian analysis. *Atmosphere*, 8 (10), art. no. 193 DOI: 10.3390/atmos8100193
72. Stojanovic, M., Drumond, A., Nieto, R., Gimeno, L. 2018. Variations in moisture supply from the mediterranean sea during meteorological drought episodes over central Europe. *Atmosphere*, 9 (7), art. no. 278. DOI: 10.3390/atmos9070278
73. Turco, M., Von Hardenberg, J., AghaKouchak, A., Llasat, M.C., Provenzale, A., Trigo, R.M. 2017. On the key role of droughts in the dynamics of summer fires in Mediterranean Europe. *Scientific Reports*, 7 (1), art. no. 81 DOI: 10.1038/s41598-017-00116-9

74. Vicente-Serrano S.M., Tomas-Burguera M., Beguería S. Reig F., Latorre B., Peña-Gallardo M., Luna Y., Morata A., González-Hidalgo J.C. 2017. A high resolution dataset of drought indices for Spain. *Data* 2, 22.
75. Vicente-Serrano, S.M. Fernando Domínguez-Castro, Tim R. McVicar, Miquel Tomas-Burguera, Marina Peña-Gallardo, Iván Noguera, Juan I. López-Moreno, Dhais Peña, Ahmed El Kenawy. Do drought metrics properly distinguish between climatic and hydrological drought in future climate simulations? *Int. J. Climatol.*, under review
76. Vicente-Serrano, S.M., Azorin-Molina, C., Peña-Gallardo, M., Tomas-Burguera, M., Domínguez-Castro, F., Martín-Hernández, N., Beguería, S., El Kenawy, A., Noguera, I., García, M., 2019. A high-resolution spatial assessment of the impacts of drought variability on vegetation activity in Spain from 1981 to 2015. *Natural Hazards and Earth System Science*. DOI: 10.5194/nhess-2018-356
77. Vicente-Serrano, S.M., Azorin-Molina, C., Sanchez-Lorenzo, A., El Kenawy, A., Martín-Hernández, N., Peña-Gallardo, M., Beguería, S., Tomas-Burguera, M. 2016. Recent changes and drivers of the atmospheric evaporative demand in the Canary Islands. *Hydrology and Earth System Sciences*, 20 (8), pp. 3393-3410. DOI: 10.5194/hess-20-3393-2016
78. Vicente-Serrano, S.M., Bidegain, M., Tomas-Burguera, M., Dominguez-Castro, F., El Kenawy, A., McVicar T.R., Azorin-Molina, C., López-Moreno, J.I., Nieto, R., Gimeno, L., Gimenez, A. 2018. A comparison of temporal variability of observed and model-based pan evaporation over Uruguay (1973–2014). *International Journal of Climatology*, 38 (1), pp. 337-350. DOI: 10.1002/joc.5179
79. Vicente-Serrano, S.M., López-Moreno, J.I., Correa, K., Avalos, G., Bazo, J., Azorin-Molina, C., Domínguez-Castro, F., El Kenawy, A., Gimeno, L., Nieto R. 2018. Recent changes in monthly surface air temperature over Peru, 1964-2014. *International Journal of Climatology*. 38, 283-306
80. Vicente-Serrano, S.M., Marina Peña-Gallardo , Jamie Hannaford , Conor Murphy , Jorge Lorenzo-Lacruz , Fernando Dominguez-Castro , Juan López-Moreno , Santiago Begueria , Ivan Noguera , Shaun Harrigan , Jean-Philippe Vidal. Climate, irrigation and land-cover change explain streamflow trends in Western Europe. *Geophysical Research Letters*, under review.
81. Vicente-Serrano, S.M., Martín-Hernández, N., Camarero, J.J., Gazol, A., Sánchez-Salguero, R., Peña-Gallardo, M., El Kenawy, A., Domínguez-Castro, F., Tomas-Burguera, M., Gutierrez, E., de Luis, M., Sangüesa-Barreda, G., Novak, K., Rozas, V., Tíscar, P.A., Linares, J.C., Martínez del Castillo, E., Ribas, M., García-González, I., Silla, F., Camisón, A., Génova, M., Olano, J.M., Longares, L.A., Hevia, A., Galván, J.D. 2019. Linking tree-ring growth and satellite-derived gross primary growth in multiple forest biomes. Temporal-scale matters. *Ecological Indicators*, under review.
82. Vicente-Serrano, S.M., McVicar, T., Miralles, D., Yang, Y., Tomas-Burguera, M. Unravelling the influence of atmospheric evaporative demand on drought under climate change. *WIREs Climate Change*
83. Vicente-Serrano, S.M., Miralles, D.G., Domínguez-Castro, F., Azorin-Molina, C., El Kenawy, A., Mcvicar, T.R., Tomás-Burguera, M., Beguería, S., Maneta, M., Peña-Gallardo, M. 2018. Global assessment of the standardized evapotranspiration deficit

- index (SEDI) for drought analysis and monitoring. *Journal of Climate*, 31 (14), pp. 5371-5393. DOI: 10.1175/JCLI-D-17-0775.1
84. Vicente-Serrano, S.M., Natalia Martín-Hernández, Fergus Reig, Cesar Azorin-Molina, Javier Zabalza, Santiago Beguería, Fernando Domínguez-Castro, Ahmed El Kenawy, Marina Peña-Gallardo, Iván Noguera, Mónica García. Vegetation greening in Spain detected from long term data (1981-2015). *International Journal of Remote Sensing*, in press.
85. Vicente-Serrano, S.M., Nieto, R., Gimeno, L., Azorin-Molina, C., Drumond, A., El Kenawy, A., Dominguez-Castro, F., Tomas-Burguera, M., Peña-Gallardo, M. 2018. Recent changes of relative humidity: Regional connections with land and ocean processes. *Earth System Dynamics*, 9 (2), pp. 915-937. DOI: 10.5194/esd-9-915-2018
86. Vicente-Serrano, S.M., Quiring, S., Peña-Gallardo, M., Yuan, S., Domínguez-Castro, F. 2019. A review on environmental droughts: Increased risk under global warming?. *Earth Science Reviews*, under review.
87. Vicente-Serrano, S.M., Rodríguez-Camino, E., Domínguez-Castro, F., El Kenawy, A., Azorín-Molina, C. 2017. An updated review on recent trends in observational surface atmospheric variables and their extremes over Spain [Revisión actualizada sobre las tendencias recientes de variables atmosféricas superficiales y sus extremos en España]. *Cuadernos de Investigacion Geografica*, 43 (1), pp. 209-232. DOI: 10.18172/cig.3134
88. Vicente-Serrano, S.M., Zabalza-Martínez, J., Borrás, G., López-Moreno, J.I., Pla, E., Pascual, D., Savé, R., Biel, C., Funes, I., Martín-Hernández, N., Peña-Gallardo, M., Beguería, S., Tomás-Burguera, M. 2017. Effect of reservoirs and water demand on streamflow and river regimes in a heavily regulated river basin of Northeast Spain. *Catena* 149, 727-741.
89. Vicente-Serrano, S.M., Zabalza-Martínez, J., Borràs, G., López-Moreno, J.I., Pla, E., Pascual, D., Savé, R., Biel, C., Funes, I., Azorin-Molina, C., Sanchez-Lorenzo, A., Martín-Hernández, N., Peña-Gallardo, M., Alonso-González, E., Tomas-Burguera, M., El Kenawy, A. 2017. Extreme hydrological events and the influence of reservoirs in a highly regulated river basin of northeastern Spain. *Journal of Hydrology: Regional Studies*, 12, pp. 13-32. DOI: 10.1016/j.ejrh.2017.01.004
90. Zabalza-Martínez, J., Vicente-Serrano, S.M., López-Moreno, J.I., Calvo, G.B., Savé, R., Pascual, D., Pla, E., Morán-Tejeda, E., Domínguez-Castro, F., Tague, C.L. 2018. The influence of climate and land-cover scenarios on dam management strategies in a high-water pressure catchment in Northeast Spain. *Water*, 10 (11), art. no. 1668 DOI: 10.3390/w10111668