

Name: **Emmanouil (Manolis) G. Grillakis**
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Current position: **Postdoctoral Researcher and Teacher at Technical University of Crete,
School of Chemical and Environmental Engineering**

Research interests

Water Resources Management; Hydrology, Hydrological and land surface models, Soil moisture dynamics, Flash floods, Droughts, Hydraulics, Extreme Events, Climate change impact studies, Bias correction

Education

Sep 2008 - Sep 2014 School of Environmental Engineering, Technical University of Crete
Ph.D. (2014) Doctor of Philosophy - Thesis: "Climate change impact assessment to principal hydrological parameters and the role of bias".
Specializing in **Water resources, hydrology, and Climate Change**

Sept. 2006- Sept. 2007 School of Environmental Engineering, Technical University of Crete
M.A.Sc. (2007) Master of Applied Science - Thesis Title: "Remote sensing and algorithm development for hydrological purposes".
Specializing in **Remote sensing for hydrological applications**

Sept. 2001- Aug. 2006 School of Environmental Engineering, Technical University of Crete.
Dipl. Engin. (2006) Diploma in Environmental Engineering (8.52 / 10) - Thesis: "Surface runoff modeling of Keritis watershed using field data"
Specializing in **Hydrological modeling**

Other language: English (C2 – CPE, Michigan University)

Scopus h-index: 23, 51 documents, 1388 citations in 1153 documents
Scholar h-index 26, 2078 citations, i10-index: 42
ORCID <https://orcid.org/0000-0002-4228-1803>

Distinctions & Awards

- Listed in the world's top 2% Scientists list for 2020. Second in FORTH (doi: 10.17632/btchxktzyw.3)
- Scholarship of Excellence in undergraduate studies. Emmanouil Michailaki. Highest grade during the academic years 2003-2004 and 2004-2005.
- Scholarship of Excellence in undergraduate studies. Greek State Scholarships Foundation (IKY). Highest grade during the academic years 2003-2004 and 2004-2005.
- Award of academic excellence in the Master Degree program "Environmental and sanitary engineering" as the first accepted student 2006-2007.
- Scholarship of Excellence in undergraduate studies on the Master degree program "Environmental and sanitary engineering". Technical University of Crete. Highest grade during the academic 2006-2007.

Teaching experience

- Jan 2022 – June 2022 Teacher - Open channel hydraulics course at Technical University of Crete
- Sept 2021 – Jan 2021 Teacher - Coastal Engineering course at Technical University of Crete
- Jan 2021 – June 2021 Teacher - Open channel hydraulics course at Technical University of Crete
- Sept 2019 – Jan 2021 Teacher - Coastal Engineering course at Technical University of Crete
- Jan 2020 – June 2020 Teacher - Open channel hydraulics course at Technical University of Crete
- Sept 2019 – Jan 2020 Teacher - Coastal Engineering course at Technical University of Crete
- Jan 2019 – Jun 2019 Teacher - Open channel hydraulics course at Technical University of Crete
- Sep 2017 – Jan 2018 Teacher - Environmental Management course at Technological Educational Institute of Crete - Department of Mechanical Engineering.
- July 2007 - Sep 2016 Teaching assistant at School of Environmental Engineering Technical University of Crete on the courses of:
- Numerical methods on environmental engineering class (1 semester)
 - Coastal engineering class (1 semester)
 - Open channel Hydraulics (3 semesters)
 - Environmental hydraulics (4 semesters)
 - Water supply and sewer networks design (4 semesters)

Research projects participation

1. **Leverhulme Centre for Wildfires, Environment and Society:** Researcher on hydrological impacts of wildfires.
2. **STREAM:** SusTainable REservoir mAnagement in water-stressed Mediterranean areas. Funded by Prince Albert II of Monaco foundation.
3. **DETACC:** DEtection and aTtribution of agricultural droughts to Anthropogenic Climate Change. Postdoctoral research funded by State Scholarships Foundation/IKY - Foundation for Research & Technology – Hellas
4. **CLIMPACT:** National Network on Climate Change and its Impacts. Implemented under the sub-project 3 of the project “Infrastructure of national research networks in the fields of Precision Medicine, Quantum Technology and Climate Change”, funded by the Public Investment Program of Greece, General Secretary of Research and Technology/Ministry of Development and Investments.
5. **COST Action, CA19139** - Process-based models for climate impact attribution across sectors – PROCLIAS (2020 - Action Management Committee member)
6. **Agro4Crete:** Research in the Agri-Food Sector of Crete “Four Institutions, Four Reference Points”. Sub-project 2, INTERVENTION B “Emblematic National Action Research Act for the utilization of new technologies in the field of Agri-Food”. Funded by GSRT.
7. **5DARE:** Development of an integrated 5-dimensional space based methodology for Assessing and modelling the Response of Erosion dynamics to land use and climatic changes in Mediterranean watersheds, Greek Institute for Research and Innovation (Hellenic Foundation for Research and Innovation) (2019-2022).
8. **H2020 IMPREX:** IMproving PRedictions and management of hydrological Extremes (2015-2019).
9. **HELIX FP7:** High-End cLimate Impacts and eXtremes. ENV.2013.6.1-3 Impacts of higher-end scenarios (global average warming > 2 °C with respect to pre-industrial level) – FP7-ENV-2013 (2013-2017).
10. **CASCADE FP7:** CAstrophobic Shifts in drylands: how CAN we prevent ecosystem DEgradation? Collaborative Project/ Large Scale Integrated Project FP7-ENV-2011 (2012-2017)
11. **IMPACT2C FP7:** Quantifying projected impacts under 2°C warming. Collaborative project/Large-scale integrating project, FP7-ENV-2011 (2011-2015)
12. **ECLISE FP7:** Enabling CLimate Information Services for Europe - Programme “Environment” FP7-ENV-2010.1.1.4-1. Underpinning work to enable provision of local scale climate information (2011-2014)
13. **SATFLOOD:** Integrated Use of Satellite Remote Sensing and Hydraulic Modelling for the Flood Risk Assessment at Catchment Scale in Cyprus, Institute for Research Advancement, Nicosia, Cyprus (2011-2013)

14. **COMBINE FP7:** Comprehensive Modelling of the Earth System for better climate prediction and projection (Integrated Project), FP7-ENV-2008-1 (2009-2013)
15. **SIMFLOOD:** High Resolution Satellite Imagery for Floodplain Mapping, European Space Agency (ESA) (2009-2011)
16. **WATCH:** WATER & global CHange (Integrated Project), Sixth Framework Programme – Global Change and Ecosystems Priority – 4th Call Paragraph II.1.1 Global Water Cycle, Water Resources and Droughts (2008-2012)
17. **SCENES:** Water Scenarios for Europe and for Neighboring States (Integrated Project), Sub-Priority 6.3 – Global Change and Ecosystems, Sub-priority research area - II.4 Scenarios of water demand and availability, Topic - II.4.1 Water scenarios for Europe and for neighbouring countries (2007-2011).
18. **HYDRATE:** Hydrometeorological data resources and technologies for effective flash flood forecasting Sixth Framework Programme – Global Change and Ecosystems Priority – 4th Call Paragraph II.1.2 “Flash Flood forecasting (2007-2010).

Service to the Scientific Community

1. **Lead author MedECC:** Lead author (LA) in Mediterranean Experts on Climate and environmental Change (MedECC), Chapter 3 (3.3 Society). Contributing author in Chapter 3.1 – Soil moisture).
2. **Expert Evaluator** in University of Wisconsin-Milwaukee 2016 Research Growth Initiative
3. **Expert Reviewer** of the IPCC Special Report on Global Warming of 1.5°C.
4. **Reviewer** of the IPCC Special Report on Climate Change and Land.
5. **Reviewer** in several journal papers: Nature Scientific Reports, Frontiers, Earth’s Future, Natural Hazards journal, International Journal of Climatology, Soil Science, Entropy MDPI, Water MDPI, Climatic Change, Journal of Hydrology, Solar Energy, Climate Services Journal, Stochastic Environmental Research and Risk Assessment, Natural Hazards and Earth System Sciences, Hydrology and Earth System Sciences.

Participation in scientific meetings

1. **June 2019 – Paris,** Cross-sectoral ISIMIP workshop of the Inter-Sectoral Impact Model Intercomparison Project. Presentation on global soil moisture trends from global hydrological and land surface models.
2. **April 2019 – Montpellier,** MISTRALS workshop on droughts – Joint workshop of the HYMEX, SICMED, BIODIVMEX and IMPACTCC actions. Presentation on soil moisture droughts in Europe under climate change.
3. **March 2019 – Milan,** First Lead author meeting for Mediterranean Experts on Climate and environmental Change (MedECC). Milan, Italy, 4th – 7th of March.
4. **August 2018 – Frankfurt,** Goethe-Institut: Workshop on Inter-Sectoral Impact Model Intercomparison Project. Presentation on soil moisture simulation on global hydrological and land surface models.
5. **March 2018 – Spain,** Technical University of Cartagena: Workshop in the framework of IMPREX H2020. Presentation on the application of WATERACCOUNTING + for Messara region – Crete.
6. **March 2018 – Chania,** COST Action: ES1306, Meeting title: The Hydrological and Erosional Cycles in Karstic Terrains.
7. **April 2016 – Vienna.** European Geoscience Union, General Assembly. Representing Water resources management and Coastal Engineering Lab. Presentation of seven posters.
8. **October 2014 – Copenhagen,** Danish Meteorological Institute (DMI). General assembly of EU FP6, IMPACT2C.
9. **May 2014 – Vienna.** European Geoscience Union, General Assembly. Representing Water resources management and Coastal Engineering Lab. Presentation of seven posters.

Memberships in Professional and Academic Organizations

1. **ISIMIP:** Inter-Sectoral Impact Model Intercomparison Project – Active member and active data contributor to water sector with the Joint UK Land Environment Simulator model (JULES-W1) and CaMa-Flood global hydrodynamic simulation model (2016-present).
2. **IAHS:** INTERNATIONAL ASSOCIATION OF HYDROLOGICAL SCIENCES (2018-present)
3. **Technical Chamber of Greece,** Association of Professional Engineers, Greece (2006-present)

Memberships to Editorial Boards and Conference organization

- Co-convenor in 1st International Congress on Fire in the Earth System: Humans and Nature, November 3-7, 2021: Session: Fire Behavior Modelling and Simulations.
- 2019-2020 Guest editor of *Resources MDPI* journal. Title of special issue: “Water resources and climate change”.

Peer reviewed journal articles

- A_51. **Grillakis, M. G.**, Doupis, G., Kapetanakis, E., & Goumenaki, E. (2022). Future shifts in the phenology of table grapes on crete under a warming climate. *Agricultural and Forest Meteorology*, 318, 108915.
- A_50. **Grillakis, M.**, Voulgarakis, A., Rovithakis, A., Seiradakis, K. D., Koutroulis, A., Field, R. D., Kasoar, M., Papadopoulos, A., Lazaridis, M. (2022). Climate drivers of global wildfire burned area. *Environmental Research Letters*, 17(4), 045021.
- A_49. Rovithakis, A., **Grillakis, M. G.**, Seiradakis, K. D., Giannakopoulos, C., Karali, A., Field, R., Lazaridis, M., Voulgarakis, A. (2022). Future climate change impact on wildfire danger over the Mediterranean: the case of Greece. *Environmental Research Letters*, 17(4), 045022.
- A_48. Thiery BW, Lange S, Rogelj J, Schleussner C-F, Gudmundsson L, Seneviratne SI, Andrijevic M, Frieler K, Emanuel K, Geiger T, Bresch DN, Zhao F, Willner SN, Büchner M, Volkholz J, Bauer N, Chang J, Ciais P, Dury M, François L, **Grillakis M**, Gosling SN, Hanasaki N, Hickler T, Huber V, Ito A, Jägermeyr J, Khabarov N, Koutroulis A, Liu W, Lutz W, Mengel M, Müller C, Ostberg S, Reyer CPO, Stacke T, Wada Y. Intergenerational inequities in exposure to climate extremes. *Science* (80-) [Internet]. American Association for the Advancement of **Science**, 374(6564), 158-160. DOI: 10.1126/science.abi7339.
- A_47. Satoh Y, Shiogama H, Hanasaki N, Pokhrel Y, Boulange JES, Burek P, Gosling SN, **Grillakis M**, Koutroulis A, Schmied HM, Thiery W, Yokohata T. A quantitative evaluation of the issue of drought definition: a source of disagreement in future drought assessments. **Environ Res Lett**. IOP Publishing; 2021. 2021 16(10), p.104001.
- A_46. Polykretis C, **Grillakis MG**, Argyriou A V., Papadopoulos N, Alexakis DD. Integrating Multivariate (GeoDetector) and Bivariate (IV) Statistics for Hybrid Landslide Susceptibility Modeling: A Case of the Vicinity of Pinios Artificial Lake, Iliia, Greece. *Land* 2021, Vol 10, Page 973 [Internet]. Multidisciplinary Digital Publishing Institute; 2021 Sep 15;10(9):973.
- A_45. Christos Polykretis, Dimitrios D. Alexakis, **Manolis G. Grillakis**, Athos Agapiou, Branka Cuca, Nikos Papadopoulos & Apostolos Sarris (2021) Assessment of water-induced soil erosion as a threat to cultural heritage sites: the case of Chania prefecture, Crete Island, Greece, **Big Earth Data**, DOI: 10.1080/20964471.2021.1923231
- A_44. Telteu, C.-E., Müller Schmied, H., Thiery, W., Leng, G., Burek, P., Liu, X., Boulange, J. E. S., Andersen, L. S., **Grillakis, M.**, Gosling, S. N., Satoh, Y., Rakovec, O., Stacke, T., Chang, J., Wanders, N., Shah, H. L., Trautmann, T., Mao, G., Hanasaki, N., Koutroulis, A., Pokhrel, Y., Samaniego, L., Wada, Y., Mishra, V., Liu, J., Döll, P., Zhao, F., Gädeke, A., Rabin, S. S., and Herz, F.: Understanding each other's models: an introduction and a standard representation of 16 global water models to support intercomparison, improvement, and communication, **Geosci. Model Dev.**, 14, 3843–3878, <https://doi.org/10.5194/gmd-14-3843-2021>, 2021.
- A_43. Grillakis, M.G., Koutroulis, A.G., Alexakis, D.D., Polykretis, C., Daliakopoulos, I.N., 2021. Regionalizing Root-Zone Soil Moisture Estimates From ESA CCI Soil Water Index Using Machine Learning and Information on Soil, Vegetation, and Climate. **Water Resour. Res.**57, e2020WR029249. <https://doi.org/10.1029/2020WR029249>
- A_42. Gudmundsson L, Boulange J, Do HX, Gosling, Simon N, **Grillakis M**, Koutroulis A, Leonard M, Liu J, Schmied HM, Papadimitriou L, Pokhrel Y, Seneviratne SI, Satoh Y, Thiery W, Westra S, Zhang X, Zhao F. Globally observed trends in mean and extreme river flow attributed to climate change. **Science**, Vol. 371, Issue 6534, pp. 1159-1162, DOI: 10.1126/science.aba3996
- A_41. Reinecke, R., Müller Schmied, H., Trautmann, T., Andersen, L. S., Burek, P., Flörke, M., Gosling, S. N., Grillakis, M., Hanasaki, N., Koutroulis, A., Pokhrel, Y., Thiery, W., Wada, Y., Yusuke, S., and Döll, P.: Uncertainty of simulated groundwater recharge at different global warming levels: a global-scale multi-model ensemble study, *Hydrol. Earth Syst. Sci.*, 25, 787–810, <https://doi.org/10.5194/hess-25-787-2021>, 2021.
- A_40. Pokhrel, Y., Felfelani, F., Satoh, Y., Boulange, J., Burek, P., Gädeke, A., Gerten, D., Gosling, S.N., **Grillakis, M.**, Gudmundsson, L., Hanasaki, N., Kim, H., Koutroulis, A., Liu, J., Papadimitriou, L., Schewe, J., Müller Schmied, H., Stacke, T., Telteu, C.-E., Thiery, W., Veldkamp, T., Zhao, F., Wada, Y., 2021. Global terrestrial water storage and drought severity under climate change. *Nat. Clim. Chang.* <https://doi.org/10.1038/s41558-020-00972-w>
- A_39. Lange, S., Volkholz, J., Geiger, T., Zhao, F., Vega, I., Veldkamp, T., Reyer, C.P.O., Warszawski, L., Huber, V., Jägermeyr, J., Schewe, J., Bresch, D.N., Büchner, M., Chang, J., Ciais, P., Dury, M., Emanuel, K., Folberth, C., Gerten, D., Gosling, S.N., **Grillakis, M.**, Hanasaki, N., Henrot, A., Hickler, T., Honda, Y., Ito, A., Khabarov, N., Koutroulis, A., Liu, W., Müller, C., Nishina, K., Ostberg, S., Müller Schmied, H., Seneviratne, S.I., Stacke, T., Steinkamp, J., Thiery, W., Wada, Y., Willner, S., Yang, H., Yoshikawa, M., Yue, C., Frieler, K., 2020. Projecting exposure to extreme climate

- impact events across six event categories and three spatial scales. *Earth's Futur.* <https://doi.org/10.1029/2020EF001616>
- A_38. Gädeke, A., Krysanova, V., Aryal, A., Chang, J., **Grillakis, M.**, Hanasaki, N., Koutroulis, A., Pokhrel, Y., Satoh, Y., Schaphoff, S., Schmied, H.M., Stacke, T., Tang, Q., Wada, Y., Thonicke, K., 2020. Performance evaluation of global hydrological models in six large Pan-Arctic watersheds. *Clim. Chang.* 2020 1–23. <https://doi.org/10.1007/S10584-020-02892-2>
- A_37. Ruman, S., Tichavský, R., Šilhán, K., & **Grillakis, M. G.** (2020). Palaeoflood discharge estimation using dendrogeomorphic methods, rainfall-runoff and hydraulic modelling—a case study from southern Crete. *Natural Hazards*, 1–22. <https://doi.org/10.1007/s11069-020-04373-2>
- A_36. **Grillakis**, M.G.; Polykretis, C.; Alexakis, D.D. Past and projected climate change impacts on rainfall erosivity: Advancing our knowledge for the eastern Mediterranean island of Crete. *CATENA*. 193, 2020, 104625. <https://doi.org/10.1016/j.catena.2020.104625>
- A_35. **Grillakis**, M. G., Polykretis, C., Manoudakis, S., Seiradakis, K. D., & Alexakis, D. D. (2020). A Quantile Mapping Method to Fill in Discontinued Daily Precipitation Time Series. *Water*, 12(8), 2304. <https://doi.org/10.3390/w12082304>
- A_34. Polykretis, C., Alexakis, D. D., **Grillakis**, M. G., & Manoudakis, S. (2020). Assessment of Intra-Annual and Inter-Annual Variabilities of Soil Erosion in Crete Island (Greece) by Incorporating the Dynamic “Nature” of R and C-Factors in RUSLE Modeling. *Remote Sensing*, 12(15), 2439. <https://doi.org/10.3390/rs12152439>
- A_33. Trambly, Y., Koutroulis, A., Samaniego, L., Vicente-Serrano, S. M., Volaire, F., Boone, A., Le Page, M., Llasat, M. C., Albergel, C., Burak, S., Cailleret, M., Kalin, K. C., Davi, H., Dupuy, J.-L., Greve, P., **Grillakis**, M., Jarlan, L., Martin-StPaul, N., Vilalta, J. M., ... Polcher, J. (2020). Challenges for drought assessment in the Mediterranean region under future climate scenarios. *Earth-Science Reviews*, 103348. <https://doi.org/10.1016/j.earscirev.2020.103348>
- A_32. Polykretis, C.; **Grillakis**, M.G.; Alexakis, D.D. Exploring the Impact of Various Spectral Indices on Land Cover Change Detection Using Change Vector Analysis: A Case Study of Crete Island, Greece. *Remote Sens.* 2020, 12, 319.
- A_31. Hunink, J.; Simons, G.; Suárez-Almiñana, S.; Solera, A.; Andreu, J.; Giuliani, M.; Zamberletti, P.; **Grillakis**, M.; Koutroulis, A.; Tsanis, I.; Schasfoort, F.; Contreras, S.; Ercin, E.; Bastiaanssen, W. A Simplified Water Accounting Procedure to Assess Climate Change Impact on Water Resources for Agriculture across Different European River Basins. *Water* 2019, 11, 1976.
- A_30. Bischiniotis, K., van den Hurk, B., Zsoter, E., Coughlan de Perez, E., **Grillakis**, M.G., Aerts, J.C.J.H., 2019. Evaluation of a global ensemble flood prediction system in Peru. *Hydrol. Sci. J.* 1–19. Doi:10.1080/02626667.2019.1617868
- A_29. Nerantzaki, S.D., Efstathiou, D., Giannakis, G.V., Kritsotakis, M., **Grillakis**, M.G., Koutroulis, A.G., Tsanis, I.K., Nikolaidis, N.P., 2019. Climate change impact on the hydrological budget of a large Mediterranean island. *Hydrol. Sci. J.* 02626667.2019.1630741. doi:10.1080/02626667.2019.1630741
- A_28. Koutroulis AG, Papadimitriou LV, **Grillakis** MG, Tsanis IK, Warren R, Betts RA, (2019). Global water availability under high-end climate change: A vulnerability based assessment. *Glob Planet Change*. Doi: 10.1016/J.GLOPLACHA.2019.01.013
- A_27. **Grillakis**, M.G., 2019. Increase in severe and extreme soil moisture droughts for Europe under climate change. *Science of The Total Environment*. 660, 1245-1255, <https://doi.org/10.1016/j.scitotenv.2019.01.001>
- A_26. **Grillakis**, M.; Koutroulis, A.; Tsanis, I. Improving Seasonal Forecasts for Basin Scale Hydrological Applications. *Water* 2018, 10, 1593. <https://doi.org/10.3390/w10111593>
- A_25. Koutroulis, A.G., **Grillakis**, M.G., Tsanis, I.K. Jacob D., Mapping the vulnerability of European summer tourism under 2 °C global warming. *Climatic Change* (2018). <https://doi.org/10.1007/s10584-018-2298-8>
- A_24. Koutroulis, A.G.; Papadimitriou, L.V.; **Grillakis**, M.G.; Tsanis, I.K.; Wyser, K.; Caesar, J.; Betts, R.A. Simulating Hydrological Impacts under Climate Change: Implications from Methodological Differences of a Pan European Assessment. *Water* 2018, 10, 1331.
- A_23. Jacob, D., Kotova, L., Teichmann, C., Sobolowski, S. P., Vautard, R., Donnelly, C., Koutroulis, A. G., **Grillakis**, M. G., Tsanis, I. K., Damm, A., Sakalli, A. and van Vliet, M. T. (2018), Climate Impacts in Europe Under +1.5°C Global Warming. *Earth's Future*, 6: 264-285. Doi:10.1002/2017EF000710
- A_22. A.G. Koutroulis, L.V. Papadimitriou, M.G. **Grillakis**, I.K. Tsanis, K. Wyser, R.A. Betts, Freshwater vulnerability under high end climate change. A pan-European assessment, *Science of The Total Environment*, Volumes 613–614, 2018, Pages 271-286, ISSN 0048-9697, <https://doi.org/10.1016/j.scitotenv.2017.09.074>.
- A_21. **Grillakis**, M. G., Koutroulis, A. G., Daliakopoulos, I. N., and Tsanis, I. K.: A method to preserve trends in quantile

- mapping bias correction of climate modeled temperature, *Earth Syst. Dynam.*, 8, 889-900, <https://doi.org/10.5194/esd-8-889-2017>, 2017.
- A_20. Papadimitriou, L. V., Koutroulis, A. G., **Grillakis**, M. G., and Tsanis, I. K.: The effect of GCM biases on global runoff simulations of a land surface model, *Hydrol. Earth Syst. Sci.*, 21, 4379-4401, <https://doi.org/10.5194/hess-21-4379-2017>, 2017.
- A_19. Daliakopoulos, I.N., Panagea, S.I., Tsanis, I.K., **Grillakis**, M.G., Koutroulis, A.K., Hessel, R., Mayor, A.G., and Ritsema, C.J., “Yield Response of Mediterranean Rangelands under a Changing Climate”, *Land Degradation & Development*, February 2017, <https://doi.org/10.1002/ldr.2717>
- A_18. Koutroulis, A.G., M.G. **Grillakis**, I.K. Tsanis and L. Papadimitriou, “Evaluation of precipitation and temperature simulation performance of the CMIP3 and CMIP5 historical experiments”, *Climate Dynamics*, 47(5), pp 1881–1898, doi:10.1007/s00382-015-2938-x, September 2016.
- A_17. **Grillakis** M.G., Koutroulis A.G., Tsanis I.K., “The 2 °C global warming effect on summer European tourism through different indices”, *International Journal of Biometeorology*, 60(8), pp.1205–1215, doi:10.1007/s00484-015-1115-6, August 2016.
- A_16. Daliakopoulos I.N., Pappa, P., **Grillakis**, M.G., Varouchakis, E.A., Tsanis, I.K., “Modelling soil salinity in greenhouse cultivations under a changing climate with SALTMED: Model modification and application in Timpaki, Crete”, *Soil Science*, 181(6), doi:10.1097/SS.000000000000161, June 2016.
- A_15. **Grillakis**, M.G., Koutroulis, A.G., Papadimitriou, L.V., Daliakopoulos, I.N. and Tsanis, I.K., “Climate induced shifts in global soil temperature regimes”, *Soil Science*, 181(6):1, doi:10.1097/SS.00000000156, May 2016.
- A_14. Papadimitriou, L.V., Koutroulis, A.G., **Grillakis**, M.G., and Tsanis, I.K., “High-end climate change impact on European runoff and low flows – exploring the effects of forcing biases”, *Hydrol. Earth Syst. Sci.*, doi:10.5194/hess-20-1785-2016, 20, pp.1785-1808, May 2016.
- A_13. **Grillakis**, M.G., Koutroulis, A.G., Seiradakis, K.D. and Tsanis, I.K., “Implications of 2° C global warming in European summer tourism”, *Climate Services*, 1, pp.30-38, March 2016. <https://doi.org/10.1016/j.cliser.2016.01.002>
- A_12. **Grillakis**, M.G., Koutroulis, A.G., Komma, J., Tsanis, I.K., Wagner, W. and Blöschl, G., “Initial soil moisture effects on flash flood generation—A comparison between basins of contrasting hydro-climatic conditions”, *Journal of Hydrology*, doi:10.1016/j.jhydrol.2016.03.007, March 2016.
- A_11. Koutroulis, A.G., **Grillakis**, M.G., Daliakopoulos, I.N., Tsanis, I.K. and Jacob, D., “Cross sectoral impacts on water availability at +2° C and +3° C for east Mediterranean island states: The case of Crete”, *Journal of Hydrology*, 532, pp.16-28, January 2016. <https://doi.org/10.1016/j.jhydrol.2015.11.015>
- A_10. Koutroulis, A.G., **Grillakis**, M.G., Tsanis, I.K., Jacob, D., “Exploring the ability of current climate information to facilitate local climate services for the water sector”. *Earth Perspectives*, 2:6, doi:10.1186/s40322-015-0032-5, November 2015. <https://doi.org/10.1186/s40322-015-0032-5>
- A_9. Panagea, I.S., Tsanis, I.K., Koutroulis, A.G., **Grillakis**, M.G., “Climate change impact on Photovoltaic Energy Output: The case of Greece”, *Advances in Meteorology*, Vol. 2014, Article ID: 264506, 11 pages, July 2014
- A_8. Tsanis I.K., Seiradakis K.D., Daliakopoulos I.N., **Grillakis** M.G., Koutroulis A.G., “Assessment of Geoeye-1 Stereo-Pair Generated DEM in Flood Mapping of an Ungauged Basin”, *Journal of Hydroinformatics*, 16 (1), 1-18, 2014
- A_7. D.D. Alexakis, M.G. **Grillakis**, A.G. Koutroulis, A. Agapiou, K. Themistocleous, I.K. Tsanis, S. Michaelides, S. Pashiardis, C. Demetriou, K. Aristeidou, A. Retalis, F. Tymvios, D.G. Hadjimitsis, “GIS and Remote Sensing Techniques for the Assessment of Land Use Changes Impact on Flood Hydrology: the Case Study of Yialias Basin in Cyprus”, *Natural Hazards and Earth System Sciences*, 14, 413-426, 2014, February 2014
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