CURRICULUM VITAE 11/2026



ILIAS G. PECHLIVANIDIS

Professor (Associate; Docent), PhD, DIC, MEng

Senior Researcher & Assoc. Prof. - SMHI Hydrology Research & Development
Member - Strategic Advisory Board of Destination Earth
Fellow - European Centre for Medium-Range Weather Forecasts (ECMWF)
Vice-Chair - World Meteorological Organization (WMO) Research Board
Hydrology Expert Member - EUMETSAT
Visiting Researcher - Department of Earth Sciences, Uppsala University

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RESEARCH INTERESTS

- Advanced (AI-enhanced) hydrological forecasting at different spatial-temporal scales (from catchment to continental/global scales, and from short-term to end-century time horizons)
- Co-created Early Warning Systems, Hydro-climate services and Decision Support Systems
- Seamless combination of systems – Science communication – User-driven evaluation of predictions
- Multi-hazard Impact-based and Action-driven forecasting
- Detection, causation and prediction of hydrologic extremes – Attribution to climate change
- Assimilation of earth observation and in-situ data in hydrological services
- Process understanding of hydrological systems and modelling under uncertainty
- Impacts of environmental change (land use, climate and population) on water resources
- Water resources management and societal adaptation

CURRENT PROFESSIONAL ROLE

May 2026-Today	**European Geosciences Union - Hydrological Sciences / EGU HS** **Deputy President of the Hydrological Sciences Division** A community of about 8000 members consisting of researchers, managers, practitioners and policy makers. The role involves: (1) managing and evolving the community ensuring high level scientific contributions to the sessions, (2) promoting knowledge on current advances and approaches to the user groups within EGU, (3) reviewing and finalizing the division's sessions and their scheduling in the programme, (4) communicating needs and proposing improvements to the EGU council, and (5) raising awareness on gender balance, diversity and equal opportunities within the community.
Jun 2026-Dec 2027	**World Meteorological Organization / WMO Research Board** **Vice-Chair - Elected (Jun 2026 – Dec 2027)** **Expert Member (Oct 2021 – Jun 2026)** The goal of the Research Board on Weather, Climate, Water and the Environment is to translate the strategic aims of WMO and decisions of Executive Council and Congress into overarching research priorities, and ensures the implementation and coordination of the research programmes to achieve these priorities. The role involves: (1) providing input to the global research community on the areas of priority research needed to support the provision of improved hydrological services, (2) building on the specifics of the WMO Hydrological Research Strategy 2022-2030 "Operational Hydrology Research Priorities",

	(3) extending the work to be inclusive of hydrological research activities from the WWRP, WCRP and GAW programmes, (4) reviewing the WMO Vision Paper from the Scientific Advisory Panel. Within the Research Board, I have also been contributing as: (1) Steering Committee Member of the WMO State of Global Resources Report (2022-2024), (2) Member of Expert Team on Operational Hydrological Prediction System, (3) Invited Speaker at WMO Regional Workshops, (4) Member of Task Team on Data Exchange with the Research Sector, (5) Reviewer of the WMO Vision paper on Operational Hydrology, and (6) Member of the WMO Hydrology Coordination Panel.
July 2025-Today	**Destination Earth (DestinE)** **Member of Strategic Advisory Board** Appointed to advise the European Commission on the strategic direction, scientific priorities, and implementation of the Destination Earth programme, including uncertainty quantification, international partnerships, science needs, ethical AI, and knowledge brokering to support the development and uptake of next-generation Earth system digital twins. Contribute to reports and recommendations guiding the integration of advanced modelling, data assimilation, and AI into operational digital twin services. Engage with scientific, policy, and stakeholder communities to ensure that DestinE outputs address societal needs and support evidence-based decision-making across Europe and beyond.
May 2025-Today	**European Centre for Medium-Range Weather Forecasts (ECMWF)** **ECMWF Fellow** Appointed to advance the use of AI in hydrological forecasting, with a focus on supporting operational and pan-European services. The role includes: (1) development of hybrid AI frameworks to enhance the prediction of hydrological extremes (floods and droughts), particularly in data-scarce and ungauged regions, ensuring compatibility with operational forecasting architectures, (2) evaluation of AI-enhanced methodologies for their potential to add value to existing systems, including the Copernicus Emergency Management Services, (3) investigation of AI-based linkages between hydro-meteorological hazard indicators and observed societal impacts, to improve the skill and relevance of impact-based forecasting, and (4) support of science-to-operations transitions, contributing to user-relevant, risk-informed, and context-aware early warning capabilities aligned with ECMWF's mission.
Oct 2020-Today and Sep 2012-Sep 2017	**Swedish Meteorological and Hydrological Institute / SMHI** **Professor Associate / Senior Researcher in the Hydrology Research unit** The role involves: (1) ensuring financial resources for the scientific field's sustainability, (2) ensuring work with high scientific quality including encouraging and initiating publishing, (3) developing and actively participating in internal and external networks, (4) Principal Investigator and coordinator of international projects and proposals, (5) coordinating and enhancing SMHI operational hydrological services at several hydro-climatic regions, (6) setting up and improving performance of the HYPE hydrological model, and (7) senior analyst of hydrological forecasts.

EDUCATION

2022	**Associate Professor (Docent) Uppsala University (Sweden)** *Geosciences with a focus on Environmental Analysis* Department of Earth Sciences, Program for Air, Water and Landscape Sciences Nominator: Prof. G. Di Baldassarre
2005-2009	**Ph.D. Imperial College London (UK)** Environmental and Water Resources Eng., Department of Civil and Environmental Eng. Dissertation: *"The significance of spatial variability of rainfall on runoff generation"*. (funded by EPSRC). Supervisors: Prof. Howard S. Wheater and Prof. Neil McIntyre

2000-2005	**M.Eng. Democritus University of Thrace (Greece)** Ecological Engineering and Technology, Department Environmental Engin. (5 year study) Thesis: "*Water quality assessment of a free water surface constructed wetland: The Vassova Lagoon case*". Supervisor: Prof. V. Tsihrintzis. 1st Class Distinction: 8.63/10

PAST PROFESSIONAL EXPERIENCE

Feb 2018- May 2026	**Hydrologic Ensemble Prediction Experiment / HEPEX** **Co-Chair of the HEPEX global Community of Practice** An international community of more than 700 members. The role involves: (1) organizing scientific exchange between participants through workshops and sessions or meetings during major science conferences, (2) planning and coordinating community experiments or testbeds, (3) organizing publications on specific topics of interest through special issues in scientific journals, (4) highlighting operational or experimental real-time examples or cases of hydrologic ensemble prediction systems (HEPS) to help practitioners find out about how ensemble prediction is being used around the world for various applications, and (5) maintaining online community interaction and HEPS-related resources via the HEPEX website and other social media channels. Contributor to the creation of the Early Career HEPEX (EC-HEPEX) aiming to bring together people in the early stages of their careers related to hydrological prediction, working as a space for communication, collaboration and the sharing of ideas.
Jan 2024- Dec 2025	**World Meteorological Organization / WMO** **Chair of the WMO Research Board Task Team on Hydrology Research** The Task Team aims to: (1) Review, update (as appropriate), and oversee the implementation of the WMO Hydrological Research Strategy 2022-2030; (2) Review, update (as appropriate), and oversee the implementation of the actions related to the WMO RB (as lead or contributor) contained in the WMO Plan of Action (PoA) for Hydrology; (3) Recommend the establishment of a subsidiary body (e.g., Expert Team, Study Group) or research program under the Research Board to lead the hydrology research agenda of WMO; (4) Identify and report on the research priorities for improving hydrological predictions that add value across spatial scales and time horizons.
Mar 2018- Dec 2024	**Copernicus Emergency Management Service (CEMS) – Floods** **Project Manager Analytics & Dissemination Centre** Managing the European and global hydrological forecasting analytics and dissemination efforts from 3 centres (SMHI-Sweden, Rijkswaterstaat-Netherlands, and Slovak Hydrometeorological Institute -Slovakia) in which about 40 hydrologists contribute on a daily base. The role involves: (1) establishing effective work allocation and performance criteria to steer and monitor progress, (2) assuring that outputs are documented in the appropriate formats and management configuration and changes are controlled and all activities are implemented as designed and outlined in the relevant work plans, (3) coordinating and communicating with all partners on a management level in order to safeguard timely delivery and quality of work, (4) coordinating with SMHI general management to assure the availability of in-house resources, (5) approving and release all documentation, reports and deliverables, (6) managing/performing all project control activities, and (7) planning human resources and their allocation.
Apr 2019- Nov 2025	**Centre of Natural Hazards and Disaster Science / CNDS** **Reference Group Member of CNDS** CNDS is a Swedish national platform for research on the nexus between socio-technical vulnerability and extreme events. Researchers are affiliated with Uppsala University, Swedish Defense University and Karlstad University. The Reference Group Member role involves: (1) providing a link between government authorities, private companies, community organization and CNDS, (2) securing a meaningful exchange between policy

	and decision makers, practitioners and researchers, and (3) recommending research outreach practices and issues in need of more research.
May 2020- May 2024	**European Geosciences Union - Hydrological Sciences / EGU HS** **Scientific Officer of the subdivision on Hydrological Forecasting** A community of about 400 members consisting of researchers, managers, practitioners and policy makers. The role involves: (1) managing and evolving the community ensuring high level scientific contributions to the sessions, (2) promoting knowledge on current advances and approaches to the user groups within EGU, (3) reviewing and finalizing the subdivision's sessions and their scheduling in the programme, (4) communicating needs and proposing improvements to the Hydrological Sciences division, (5) coordinating the dissemination of the sessions belonging to the subdivision, and (6) raising awareness on gender balance, diversity and equal opportunities within the community.
May 2021- Dec 2023	**European Forum for Earth Observation - FIRE project** **EO Evangelist for the Agriculture sector** FIRE, the industry-led Forum for Innovation and Research in European Earth Observation, aims to shape the Research and Innovation Strategy for Earth Observation (EO) solutions in Europe. It has established a user community across different sectors, i.e. agriculture, energy, raw materials, infrastructure, marine, and urban spaces. The role of EO Evangelist involves to: (1) promote the adoption of EO solutions in the sectors, and (2) set an open dialogue with the demand side to guide the development, delivery and uptake of EO services in Europe.
Sep 2017- Sep 2020	**SMHI / Swedish Meteorological and Hydrological Institute (Sweden)** **Scientific Leader** in the Hydrology Research and Development (R&D) unit Role involves: (1) leading the research activities under the scientific field of *Forecasting of Water Variables*, (2) ensuring financial resources for the scientific field's sustainability, (3) ensuring work with high scientific quality including encouraging and initiating publishing, (4) developing and actively participating in internal and external networks, (5) Principal Investigator and coordinator of international projects and proposals, (6) enhancing SMHI operational hydrological services at several hydro-climatic regions, (7) setting up and improving performance of the HYPE hydrological model, and (8) senior analyst of hydrological forecasts.
Dec 2011 - Sep 2012	**National Observatory of Athens (Greece)** **Scientific consultant** at the Institute of Environmental Research and Sustainable Development. Project title: "Representation of the spatial-temporal distribution of precipitation in the Mornos Region and simulation of its hydrological behaviour". Duties include: i) field work -measure river velocities and generate water level – discharge curves (rating curves), ii) development of GIS-based tools to simulate the hydrological cycle at the regional scale, and iii) use of developed tools for hydrological forecasting under uncertainty.
Sep 2011 - May 2012	**Hellenic Army General Staff (Greece) – *Off research period for obligatory service*** **Scientific consultant** including duties such as: i) estimate the hydro-climatic characteristics (curve numbers, runoff coefficients, precipitation frequency analysis) of the Evros Region, and ii) calculate the hydrological response of the region for extreme events.
Jul 2011 - Aug 2011	**Victoria University of Wellington (New Zealand)** **Teaching Fellow** including duties such as: i) managing tutors, ii) coordination and delivery of laboratories, iii) preparation of lecturing, iv) delivering lectures, v) student consultation, and vi) setting and marking assignments and the final examination.
May 2010- Jul 2011	**Victoria University of Wellington (New Zealand)** **Research Fellow** in: (i) catchment-scale hydrological modelling within a diagnostic framework, and (ii) extension and application of the multi-criteria LUCI GIS tool under different hydro-climatic environments.
Nov 2009- May 2010	**Bangor University of Wales (UK) and Victoria University of Wellington (New Zealand)**

	Postdoctoral Fellow (Bangor University) and **Academic Visitor** (Victoria University) in the development of computationally efficient hydrological algorithms within a geographic information system (GIS) framework.
Jul 2009-Feb 2011	**Technological Educational Institute of Thessaloniki (Greece)** **Adjunct Research Assistant** in the Laboratory of Hydraulic and Environmental Engineering, Department of Civil Infrastructures Projects. Participation in two projects. The firs project aimed to measure the turbulent characteristics and evaluate the entrainment in stratified flows in an open channel using the PIV method". The 2nd project was entitled: "Identifying the optimal geometrical and hydrodynamic properties of downstream reservoirs (fishponds) lateral to the river flow for fish habitat".
2008	**Imperial College London (UK)** **Research Assistant** in the development of computationally efficient hydrological algorithms within a geographic information system (GIS) framework. Collaboration between Imperial College London and Bangor University (funded by FRMRC).
2002 -2009	**Aristotle University of Thessaloniki (Greece)** **Adjunct Research Assistant** in the Laboratory of Hydraulic and Environmental Engineering, Department of Civil and Environmental Engineering. Experiments include tsunamis, velocity, temperature, conductivity, shear stresses & saline wedge intrusion.
2003 -2005	**EU Research Projects** **Research Assistant** in the project entitled "Contribution in ascertainment and in measurement of wedge's length and in the profile of speeds into mixed fluids: Application to saline wedges".

EXPERIENCE IN OPERATIONAL HYDRO-METEOROLOGICAL SERVICES

2019- 2020	Task Leader at SMHI for the global hydrological status and outlook provided to **WMO's HydroSOS Demonstration Portal** (https://eip.ceh.ac.uk/hydrology/HydroSOS)
2018- 2021	Task Leader of the **operational WATER-SIS seasonal forecasting service at ECMWF under the Copernicus Climate Change Service (C3S)**
2014- Today	Senior Analyst of **medium-range, sub-seasonal and seasonal ensemble hydrological forecasts** based on the E-HYPE model at the pan European scale.
2014- Today	Senior Analyst of **SMHI's operational short to medium range ensemble hydrological forecasts** based on the S-HYPE and HBV models in Sweden.
2013- Today	Officer on Duty for **European Flood Awareness System (EFAS)** system. Medium range ensemble hydrological forecasting based on LISFLOOD and E-HYPE models in Europe.
2016-2018	Leading Researcher and Co-Developer of the **Space-O portal** (https://portal.space-o.eu/portal/)
2018- 2019	Task Leader of the **GLORIOUS world-wide seasonal forecasting service** (http://glorious.smhi.se/seasonal-forecasts)
2017- 2018	Task Leader of the **SWICCA pan-European seasonal forecasting service** (http://swicca.eu/seasonal-forecasts-map/)
2017	Officer on Duty for the **Aristotle** global multi-hazard monitoring service. Responsible for the Flooding hazard, providing forecasts and knowledge over numerous extreme phenomena.

FIELD EXPERIENCE

2012	Installation of snow-gauge pillow measuring snow depth and water equivalent in Sweden
2011 - 2012	Installation of rain- (3), snow- (2), and flow-gauges (2) in the Mornos Region, Greece
2010 - 2011	Field methods teaching assistant; demonstrating stream gauging (GEOG 223 course)
2004 - 2005	Principal investigator; monitor the water quality of a wetland (MEng final year project)

VISITING - EXCHANGE PROGRAMS

Sept. 2019 Research visitor to the HYCAR group at IRSTEA research centre, Antony, France
Sept. 2019 Ambassador of the EFAS service to the Hellenic National Meteorological Service (HNMS) and General Secretariat for Civil Protection, Athens, Greece

ACADEMIC AND PEDAGOGIC MERITS

PHD EXTERNAL EXAMINER

STOCKHOLM UNIVERSITY (SWEDEN): MAY 2024, COMMITTEE MEMBER

Elisie Kåresdotter, "*Water in a changing world – Unravelling the complexities of conflict and cooperation"* (supervised by Z. Kalantari and G. Destouni)

UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA (ITALY): JULY 2021, COMMITTEE MEMBER

Claudia Bertini, "*On the use of satellite rainfall data to design a dam in an ungauged site"* (supervised by F. Napolitano, F. Russo, L. Buonora and E. Ridolfi)

UNIVERSITY OF OSLO (NORWAY): MARCH 2021, OPPONENT 2

Trine Jahr Hegdahl, "*Hydrological ensemble prediction systems: from evaluating daily streamflow forecasts to exploring the impact of selected flood events in a future climate"* (supervised by K. Engeland, L. Tallaksen, I. Steinsland and A. Singleton)

UPPSALA UNIVERSITY (SWEDEN): SEPTEMBER 2019, COMMITTEE MEMBER

Kaycee Okoli, "*Flood frequency analysis with uncertain river flow data"* (supervised by G. Di Baldassarre, M. Mazzoleni and K. Breinl)

SUPERVISION

INRAE (FRANCE): 2023 - 2027, PHD MENTORSHIP

Guilherme Mendoza Guimarães, "*Characterizing multi-hazard dynamics and interdependencies for hydrometeorological early warnings systems"* (supervisor: Dr. Maria- Helena Ramos)

UPPSALA UNIVERSITY (SWEDEN): 2021 - 2025, PHD CO-SUPERVISOR

Anastasiya Shyrokaya, "*Forecasting of the impacts of droughts at the large scale*" (co-supervision together with Prof. G. Di Baldassarre, Prof. H. Cloke, Prof. F. Pappenberger)

KTH ROYAL INSTITUTE OF TECHNOLOGY (SWEDEN): 2022-2023, LICENTIATE CO-SUPERVISOR

Daniela Mewes, "*Climate adaptation of renewable energy systems"* (co-supervision together with Prof. Anders Wörman, Dr. Joakim Riml, Prof. Mikael Amelin)

SMHI (SWEDEN): NOV. 2024 – OCT. 2026, POST-DOC SUPERVISOR OF DR. BABAK MOHAMMADI

SMHI (SWEDEN): AUG. 2021 – JUL. 2023, POST-DOC SUPERVISOR OF DR. YIHENG DU

SMHI (SWEDEN): JUN. 2018 – OCT. 2020, POST-DOC SUPERVISOR OF DR. MARC GIRONS LOPEZ

SMHI (SWEDEN): JUL. 2016 – JUL. 2017, POST-DOC SUPERVISOR OF DR. LOUISE CROCHEMORE

KTH (SWEDEN): 2017, MSC THESIS REPORT, CO-SUPERVISOR

Hedvig Winther, "*Climate change impacts on water resources of the Ganges: Suitable adaptation options for agriculture in the Indian-Himalayan region"* (thesis co-supervision with Dr Daniel Franzen (KTH), Dr. P. Bueker (SEI-York) and Ms Y. Ran (SEI-Stockholm))

UPPSALA UNIVERSITY (SWEDEN): 2013, MFS PROJECT REPORT, CO-SUPERVISOR

Pierong R., and Takman M., "*Measuring and understanding of processes using the HYPE hydrological model in the North-western Indian region"* (co-supervision with Prof. A. Rodhe)

IMPERIAL COLLEGE LONDON (UK): 2008 - 2009, MASTER THESES, CO-SUPERVISOR

2009 Kissa A., *"Preparatory modelling for flood forecasting in the Roding River"* (co-advised)
2008 Zhang W., "*The significance of spatial rainfall variability on flood generation: Application to the Upper Lee catchment, UK"* (co-supervision with Dr N. McIntyre)

ACADEMIC TEACHING EXPERIENCE

VICTORIA UNIVERSITY OF WELLINGTON (NEW ZEALAND): 2009 - 2011

- GEOG 220 - Hydrology and Climate (BSc students) - *Organiser*
- GEOG 223 - Physical Environmental Processes: Field Methods (BSc students) - *Organiser*
- PHYG 417 - Hydrological Processes and Modelling (MSc students)

IMPERIAL COLLEGE LONDON (UK): 2005 – 2009

- Rainfall-Runoff Modelling (MSc students)
- Mathematics (MSc students)
- Hydrology (BSc/MSc students)
- System Analysis (BSc students)
- Urban Hydrology (BSc/MSc students)
- Surveying (BSc students)
- MatLab (BSc students)
- Wastewater Treatment (BSc/MSc students)

LEADERSHIP AND PEDAGOGIC COURSES

LEADERSHIP, TRANSFERABLE SKILLS (AND PEDAGOGIC) COURSES

- 2021: *Supervising Doctoral Students,* a 7-day course hosted by Uppsala University focusing on: (1) evaluation of education, (2) student's perspective, (3) research ethics, (4) academic writing, feedback and supervision, (5) gender and diversity, (6) leadership, and (7) doctoral viva.
- 2020: *Communicative leadership*, a 1-day course focusing on: (1) rhetoric and communication practices, (2) encouraging creativity, (3) diversity and inclusion, and (4) norms and biases
- 2019: *Understanding Groups and Leaders (UGL),* a 5-day course focusing on: (1) be able to distinguish different stages in a group's development and their own approach to these, (2) work with reflection and learning individually and in groups, (3) understand the impact of emotions on individual and group level, (4) understand that there is a need for different leadership styles, (5) get knowledge of conflicts and how to handle these, (6) be able to take and give developing feedback, (7) be able to communicate directly and clearly, and (8) get increased self-awareness and personal development
- 2014: *Results-Based Management* course, a 2-day course for successful proposal writing

- 2007: *Project Management for Researchers, IDEA Summer School 2007 "Succeeding in Europe"*, a 5-day course focusing on: (1) managing research, (2) making grant applications, (3) getting published, (4) entrepreneurship and inter-cultural awareness, and (5) career management
- 2005-2009: various 1-day Postgraduate courses at Imperial College London including: (1) Project Management for Researchers (2005); (2) Negotiation Skills and Influencing Skills for Masters Students (2005); (3) Successful Interviews (2005); (4) Efficient Reading (2005); (5) Research Skills Development – Residential (2006); (6) Reference Manager (2006); (7) Stand and Deliver: Presenting an Academic Conference Paper (2007); (8) Assessment and Marking Skills for Research Students who Teach (2007)

ACHIEVEMENTS AND AWARDS

- 2026-Today: **President Elected** of the EGU Hydrological Sciences Division
- 2026-Today: **Vice-Chair Elected** of the WMO Research Board
- 2025-Today: **Member** of Strategic Advisory Board of Destination Earth programme
- 2025-Today: **Fellow** of ECMWF
- 2023-Today: **Member** (Hydrology Expert) of the EUMETSAT
- 2018-2026: **Co-Chair** of the HEPEX global initiative (Hydrologic Ensemble Prediction Experiment)
- 2021-2026: **Member** of the WMO Research Board
- 2024-2025: **Chair** of the WMO Research Board Task Team on Hydrology Research
- 2019-2025: **Reference Group Member** at Centre of Natural Hazards and Disaster Science (CNDS)
- 2021-2024: **EO Evangelist** for the Agriculture sector of the FIRE forum
- 2021: **Main Nominator** of Berit Arheimer for the EGU 2021 Henry Darcy Medal
- 2020-2024: **Scientific Officer** of EGU Hydrological Sciences Subdivision Hydrological Forecasting
- 2019: **Award** (travel) for research exchange program between Sweden and France
- 2018-2024: **Project Manager** of the Copernicus Emergency Management Service – Floods Dissemination and Analytics Centre
- 2017-2020: **Scientific Leader** of Forecasts of Water Variables at SMHI's Hydrology Research unit
- 2016-2017: HEPEX **Invited Guest** Columnist
- 2015: ASCE **Outstanding Reviewer** for the Journal of Hydrologic Engineering
- 2012: ASCE **Outstanding Reviewer** for the Journal of Hydrologic Engineering
- 2012: **Reference letter** from the Greek Defence Minister Fragos Fragoulis for my scientific contribution to military projects
- 2008: **Award** from the Technical Chamber of Greece for graduating 1st from the Department of Environmental Engineering at the Democritus University of Thrace during undergraduate studies
- 2008: iEMSs Society's **Student Paper Commendation** for excellent paper and presentation
- 2008: Old Centralian's Trust postgraduate **travel award** to iEMSs 2008 conference
- 2008: British Hydrological Society **travel award** to EGU hydrological conference
- 2007: British Hydrological Society **travel award** to CEMEPE hydrological conference
- 2007-2008: **Safety Representative** at Imperial College London
- 2006-2008: **Postgraduate Departmental Representative** ~125 PhDs at Imperial College London
- 2004-2005: **Highest graduation grades** among graduates in the Department of Environmental Engineering, 3rd highest in the Faculty of Engineering, Democritus University of Thrace, Greece
- 2000-2005: **Annual awards and scholarships** from the Greek National Scholarship Foundation
- 2000-2005: **Vice-President** of Undergraduate students at Democritus University Thrace, Greece

PROFESSIONAL AFFILIATIONS

- World Meteorological Organization (WMO) – *Research Board Member*
- Hydrologic Ensemble Predictions Experiment (HEPEX) – *Co-Chair*

- Global Flood Partnership (GFP)
- Institution of Civil Engineers (ICE)
- British Hydrological Society (BHS)
- American/European Geophysical Society
- Technical Chamber of Greece
- Environmental Modelling & Software Society (EMS)
- European Water Association (EWA)

FUNDING ACQUISITION AND PROJECT MANAGEMENT

Role highlighted in bold: Principal Investigator (PI); Work package leader (WP-L); Project leader (PL); Task leader (TL); Project coordinator (PC); Secondary proposer (SP)

International funding

COST Action	2025-2029	"ANTICIPATE: extended-range multi-hazard predictions and early warnings", (nr CA24144), **(SP, Working Group co-leader)**
EU Horizon Europe	2023-2026	"MedEWSa: Mediterranean and pan-European forecast and Early Warning System against natural hazards", (nr 101121192), 5 M Euro, 30 partners **(PI, WP-L)**
EU Horizon 2020	2021-2025	"I-CISK: Innovating climate services through integrating scientific and local knowledge", (nr 101037293), 5 M Euro, 13 partners **(PI, WP-L)**
	2021-2025	"CLINT: Climate Intelligence: extreme events detection, attribution and adaptation design using machine learning", (nr 101003876), 6 M Euro, 15 partners **(PI, WP-L)**
	2019-2022	"PrimeWater: Delivering advanced predictive tools from medium to seasonal range for water dependent industries exploiting the cross-cutting potential for EO and hydro-ecological modelling", (nr 870497), 2 M Euro, 10 partners **(PI, WP-L)**
	2019-2022	"HYPOS: Hydro-Power-Suite", (nr 870504), 2 M Euro, 5 partners **(co-PI, WP-L)**
	2019-2023	"E-SHAPE Showcases: Applications powered by Europe", (nr 820852), 15 M Euro, 55 partners **(PI)**
	2017-2020	"S2S4E: Sub-seasonal to Seasonal climate forecasting for Energy", (nr 776786), 4.8 M Euro, 12 partners **(PI)**
	2017-2020	"CLARA: Climate forecast enabled knowledge services", (nr 730482), 4 M Euro, 10 partners **(co-PI)**
	2016-2019	"IMPREX: Learn from today to anticipate tomorrow", (nr 641811), 8 M Euro, 23 partners **(SMHI's co-PL)**
	2016-2018	"Space-O: Space assisted water quality forecasting platform for optimized decision making in water supply services", (nr 603663), 2 M Euro, 8 partners **(PI, WP-L)**
Copernicus Programme Emergency Management Service (CEMS) and Climate Change Service (C3S)	2022-2024	"WaterSIS- operational 2", (nr C3S2_410_Lot2_SMHI), 300 k Euro, SMHI as Contractor **(TL)**
	2022-2028	"CEMS Hydrological Forecast Centre – Analytics and Dissemination", (nr JRC/IPR/2020/OP/3195), 3.5 M Euro, SMHI as Contractor **(co-PI, PC)**
	2018-2021	"WaterSIS- operational", (nr C3S_424), 2 M Euro, SMHI as Contractor **(TL)**
	2019-2020	"Demonstrating the potential of the Copernicus Climate Data Store for Kenyan smallholder farmers: a scalable adaptation services approach" (nr C3S_429_Lot1), 75,000 Euro, SMHI as sub-contractor, **(TL)**
	2017-2019	"GLORIOUS: Global users in the Copernicus Climate Change Service", (nr C3S_422_Lot1), 2 M Euro, SMHI as Contractor **(TL)**

	2015-2017	"SWICCA: Service for water indicators in climate change adaptation", (nr C3S_441_Lot1), 2 M Euro, SMHI as Contractor **(TL)**
	2014-2016	"ISI-MIP2: Inter-Sectoral Impact Model Intercomparison Project phase 2", SMHI contributes at the water sector with results from E-HYPE, Arctic-HYPE, India-HYPE and Niger-HYPE at 6 focus regions, 10 partners **(SMHI's PL)**
EU FP7	2013-2016	"EUPORIAS – EUropean Provision Of Regional Impact Assessment on a Seasonal to decadal timescale", (nr 308291), 9 M Euro, 24 partners **(SMHI's PL)**

National funding

FORMAS- Research Council Sustain. Develop.	2025-2027	"Actionable climate tools for drought preparedness in Sweden (ACT4Drought)", (nr 2025-01330), 400 k Euro, 2 partners **(co-PI)**
	2025-2027	"Humanizing Climate Services", (nr 2025-01335), 400 k Euro, 3 partners **(PI)**
	2024-2028	"Adapting to temperature extremes in a changing climate: Past trends and future scenarios (ADATES)", (nr 23-487), 1.2 M Euro, 4 partners **(PI)**
Swedish Energimyn-digheten	2021-2024	"The role of hydropower as a regulatory resource in a renewable energy system with climate impact and increased internationalization of electricity markets", (nr 52095-1), 400 k Euro, 3 partners **(PI)**
	2018-2021	"Long-term forecasts of wind and hydropower supply in a fluctuating climate – Importance for production planning and investments in energy storage & power transmission", (nr 46412-1), 400 k Euro, 3 partners **(PL)**
Swedish Research Council (VR)	2016-2018	"WaterRain-Him: Changes in Water Resources and Adaptation options in the Indian-Himalayan basins", (nr. 348-2014-33), SMHI as Coordinator, 300 k Euro, 4 partners **(co-PI, PL)**
Swedish Secretariat for Environm. Earth System Sciences	2015-2016	"Participatory analyses to sustain the lifeline of the Ganga River Basin under future conditions", (grant nr. KVA/2015/111/75), 9 k Euro **(PI, PC)**
Swedish International Development Cooperation Agency (Sida)	2012-2013	"Assessment of climate change impacts on water resources in the Luni River basin, Rajasthan, India, using CORDEX results", (AKT-2012-022), SMHI coordinates, 210 k Euro, 2 partners **(Consortium's PL)**
Athens Water Supply and Sewerage Company (EYDAP SA)	Dec 2011-May 2012	"Representation of the spatial-temporal distribution of precipitation in the Mornos Region and simulation of its hydrological behaviour", **(Sub-contractor)**

TRAINING TOOLS - GAMES - GAMIFICATION - SCIART

2018 **Co-developer** (Crochemore L., Cantone C., Photiadou C., Pechlivanidis I.G.) of the SciArt interactive game for training users in the water-sector "Call4Water: Seasonal forecasting for water management in different certainty and reliability contexts" https://hypeweb.smhi.se/showcases/call4water-game/

PODCASTS - TED-STYLE/INVITED SPEAKER - EVENT ORGANISER

2026

- "HydroTalks podcast: Introducing Ilias Pechlivanidis, the HS Division President-elect", 8 July 2026, **Podcast Speaker** organized by the EGU blog of the Hydrological Sciences Division.
- "Advancing Multi-Hazard Prediction & From Forecasts to Decisions: WG1–WG2 Expert Workshop", 27-28 April 2026, **Co-organizer** of the ANTICIPATE COST Action workshop, University of Lausanne, Lausanne, Switzerland.
- "EGU 2026 –SC2.1 - Compound Events and Multi-Hazard Analytics", 3 -8 May 2026, **Session Organizer**, Vienna, Austria
- "EGU 2026 –HS4.10 - Recent advances in (hybrid) hydrological forecasting using physically-based and machine learning models", 3 -8 May 2026, **Session Convener**, Vienna, Austria

2025

- "Bridging Science and Services: The WMO Operational Hydrology Research Strategy 2030", 4 Nov. 2025, **Invited Speaker** at the 2nd Regional Scientific Forum of Regional Association VI "Bridging research and operations in an Earth-system approach – Increasing water and heat resilience in RA VI" organised by WMO.
- "AI for Hydrology: From Continental Models to Local Predictions", 5 Nov. 2025, **Invited Speaker** at the 2nd Regional Scientific Forum of Regional Association VI "Bridging research and operations in an Earth-system approach – Increasing water and heat resilience in RA VI" organised by WMO.
- "Hybrid AI-enhanced hydrological modelling for improving simulations at the local scale", 24 Oct. 2025, **Invited Speaker** at the Hydrology ML Seminar organised by ECMWF, University of Reading and University of Oxford.
- "EGU 2025 –HS4.10 - Recent advances in (hybrid) hydrological forecasting using physically-based and machine learning models", 27 April -2 May 2025, **Session Convener**, Vienna, Austria
- "EGU 2025 – PICO session HS4.4 - Operational forecasting and warning systems for flood, water scarcity and multi-hazards: challenges and innovations", 27 April -2 May 2025, **Session Convener**, Vienna, Austria
- "The future of flood forecasting and AI", 23 April 2025, **Invited Speaker** at the Workshop "Exploring the Use of Artificial Intelligence for Flood Forecasting in Scotland" organised by the University of Strathclyde, CREW and SEPA.
- "HEPEX with Dr. Ilias Pechlivanidis", 3 April 2025, **Podcast Speaker**, organized by Alabama Water Institute.
- "Shaping the Future of Hydrological Forecasting: HEPEX 2025 Workshop and Anniversary!", 25-27 March 2025, **Co-organizer** of the HEPEX scientific initiative workshop, Tuscaloosa, Alabama, United States.

2024

- "Let's Get Personal - How Personalised Flood Alerts Could Save Lives", 4 December 2024, **Inspirational Speaker**, High Flows – Stories on Water, TED-style talks organized by WMO.
- "Enhancing Hydro-Climate Services: SMHI's Journey in Co-Generation and AI-Driven Solutions for Local Water Management", 28-30 August 2024, **Invited Speaker** organized by the FutureMed COST action project.
- "A digital twin of Earth's water cycle: progress and promise", 29 May 2024, **Invited Panelist** webinar organized by the Frontiers Forum, Online.
- "Hydrological hazards in the Anthropocene", 14 May 2024, **Invited Speaker** organized by Technical University of Crete, Chania, Greece.

- "EGU 2024 – GDB4 - Early Warnings for All (EW4ALL) Initiative: science needs for the global ambition to protect everyone by 2027", 14-19 April 2024, **Session Organizer**, Vienna, Austria
- "EGU 2024 – PICO session HS4.4 - Operational forecasting and warning systems for natural hazards and climate emergency: challenges and innovations", 14-19 April 2024, **Session Convener**, Vienna, Austria
- "ML-based post-processing increases the usability of continental hydro-climate services to local conditions", 14 Feb. 2024, **Invited Speaker** organized by ITU/WMO/UNEP Focus Group on AI for Natural Disaster Management (FG-AI4NDM).
- "Are we done with co-creating climate services? Time to co-evolve knowledge for successful service uptakes", 9 Jan. 2024, **Invited Speaker** organized by COST Action FutureMed WG2 project kick-off.

2023

- "Enhancing hydro-climate services through seamless communication of S2S forecasts", 13 Dec. 2023, **Invited Speaker** at AGU General Assembly 2023, San Francisco, US.
- "Future of flood predictions", 10 Oct. 2023, **Invited Speaker** at the WMO RA VI Scientific Forum, Bucharest, Romania.
- "Forecasting across spatial scales and time horizons", 13-15 Sept. 2023, **Organizer** of the HEPEX scientific initiative workshop, Norrköping, Sweden.
- "Customizing global hydrological models for local applications: It is not only about informative data!", 2 Sept. 2023, **Invited Speaker** at CEST 2023 conference (https://cest.gnest.org/)
- "EGU 2023 – PICO session HS4.4 - Operational forecasting and warning systems for natural hazards and climate emergency: challenges and innovations", 23-28 April 2023, **Session Convener**, Vienna, Austria
- "Investigating the water cycle - A journey through hydrological models, data and services for addressing societal challenges", 23 Mar. 2023, **Invited Speaker** at International webinar on World Meteorological Day, Central University of Rajasthan, India.
- "Climate services to mitigate the impacts of extreme events", 22 Mar. 2023, **Invited Speaker** at "Extreme temperature and public health" research seminar, Uppsala University, Sweden.
- "Building EO-tailored water services for the globe – Searching for historical water availability and quality information?", 14-15 Feb. 2023, **Invited Speaker** at "e-shape solutions: Earth Observation for biodiversity and water management" workshop, the Hague, the Netherlands.

2022

- "Hydrological hazards in the Anthropocene", 13 Dec. 2022, **Invited Speaker** at KTH University, Stockholm, Sweden.
- "Understanding the drivers controlling the seasonal predictability of hydrological extremes over Europe", 24 Sept. 2022, **Keynote Speaker** in the ITU Workshop on Artificial Intelligence for Natural Disaster Management, Athens, Greece.
- "The potential of earth observations on hydrological forecasting and early warning services", 13 Sept. 2022, **Invited Speaker** at IWA 2022 conference, Copenhagen, Denmark.
- "Assessment of seasonal forecast performance of hydrological extremes over Europe", 16 Jun. 2022, **Invited Speaker** at the Network of Drought Observatories in the EU, organized by JRC.
- "The Now and Tomorrow of Earth Observation for Agriculture", 14 Jun. 2022, **Keynote Speaker** at ExpandEO and FIRE Forum 2022.
- "Flooding beyond prediction – A reality of different perspectives", 2 Jun. 2022, **Keynote Speaker** in the celebration event of the 100 years of the IAHS (International Association of Hydrological Sciences), Montpellier, France.
- "Towards the evolution for an EO-enhanced agriculture sector", 30 May 2022, **Keynote Speaker** at IFAT2022 – The World's Leading Trade Fair for Environmental Technologies, Munich, Germany
- "EGU 2022 – PICO session HS4.4 - Operational forecasting and warning systems for natural hazards: challenges and innovation", 23-27 April 2022, **Session Convener**, Vienna, Austria
- "Hydro-climatic extremes along the Ganges river regime under present and future conditions", 2-4 Mar. 2022, **Keynote Speaker** at Roorkee Water Conclave 2022

2021

- "DTE (Digital Twin Earth) Hydrology final meeting", 9 Dec. 2021, **Invited Hydrology Expert**

- "State-of-the-art hydrological forecasting for the hydropower sector", 15-19 Nov. 2021, **Invited Speaker** at PrimeWater Multi User Panel Stakeholders Week
- "Challenges in understanding and predicting the hydrological responses: From data availability to water services", 3 Sept. 2021, **Invited Speaker** at CEST 2021 conference (www.cest2021.gnest.org)
- 17th International Conference on Environmental Science and Technology (CEST2021), 1 - 4 Sept. 2021, Athens, Greece. **Convener** in the *Hydrology & Water Resources Management* session.
- "Connecting global to local hydrological modelling and forecasting: scientific advances and challenges", 29 June - 1 July 2021, **Organiser**, virtual workshop, organized by ECMWF-CEMS-C3S-HEPEX-GFP
- "How can an EO-driven large-scale water service address the user and market needs?", 5 May 2021, **Invited Speaker** at the "Space Opportunities for Climate Challenges: Water Resources" webinar, organized by Eurisy and Groundstation Space.
- "vEGU 2021 – PICO session HS4.4/NH9 - Operational forecasting and warning systems for natural hazards: challenges and innovation", 19-30 April 2021, **Session Convener**, Vienna, Austria
- "Can earth observations evolve the water sector? Tailoring large-scale water services to address the user and market needs", 26 April 2021, **Invited Speaker** at the "Earth-observation based solutions supporting disaster resilience: hands-on the e-shape pilot services" webinar, organized by the e-shape project at vEGU21
- "Exploring the potential of Earth Observations for the water sector: tailoring large-scale water services to ensure local customization", 24 March 2021, **Invited Speaker** at the "Water Knowledge Europe 2021" webinar, organized by the Water Europe group

2020

- "Seamless blending of forecasts timescales: application for hydropower", 4 Dec. 2020, **Invited Speaker** at the "Climate forecasting for energy" online workshop, organized by S2S4E project and the Open Energy Modelling initiative
- "Challenges in understanding and prediction of hydrological responses: From data availability to water services", 24-26 Nov. 2020, **Invited Speaker** at the "Actions aimed at the Internationalization of Doctoral programs 2020" programme, organized by Polytechnic University of Valencia
- "Hydrological modelling and prediction: Always look on the bright side", 1 Jul. 2020, **Invited Speaker** at the Hydrology Modeling for Energy Models workshop, organized by Rte and IPSL
- "Hydro-climatic forecasts for the upcoming spring flood season", 23 Apr. 2020, **Invited Speaker** at the S2S4E H2020 project webinar organised by BSC, online webinar
- "EGU 2020 – PICO session HS4.5/NH9 - Operational forecasting and warning systems for natural hazards: challenges and innovation", 4-8 May 2020, **Session Convener**, Vienna, Austria

2019

- "Hydro-climatic services for the hydropower sector: Towards a success story", 11 Dec. 2019, **Invited Speaker** at the COP25, side event "Climate Information for Hydropower Resilience and Operations" organised by IPCC and WMO, Madrid, Spain
- "Seasonal hydro-climatic services in the hydropower sector", 13 Nov. 2019, **Invited Speaker** at the Climate Sprint: Accelerating Climate Solutions, Paris, France
- "Seasonal forecasts for water management: Challenges and opportunities for (co-) evolving services and knowledge", 28 Oct. 2019, **Invited Speaker** at the Copernicus Climate Change Service (C3S) General Assembly, Warsaw, Poland
- "Large scale hydrological services: challenges and opportunities for the co-evolution of knowledge", 10 Sept. 2019, **Invited Speaker** at HYCAR research unit of IRSTEA, Antony, France
- 16th International Conference on Environmental Science and Technology (CEST2019), 4 - 7 Sept. 2019, Rhodes, Greece. Acting as **convener** and **chairman** in the *Hydrology & Water Resources Management* session.
- "IUGG/IAHS 2019 – Session H14a - Sub-Seasonal to Seasonal Predictions: Skill and Limits for Decision-Based Forecasting", 8-18 July 2019, **Session co-convener**, Montreal, Canada
- "Towards the co-evolution of hydro-climatic services and knowledge", 25 June 2019, **Invited Speaker** at the *CLARA Horizon 2020 project General Assembly*, Norrköping, Sweden

- "Large-scale early warning services for the water sector – State of the art and challenges ", 21 Mar. 2019, **Invited Speaker** at the *CNDS Symposium* by the Centre of Natural Hazards and Disaster Science, Stockholm, Sweden
- "EGU 2019 – PICO session HS4.3.1/NH1.35 - Operational forecasting and warning systems for natural hazards: challenges and innovation", 7-12 April 2019, **Session Convener**, Vienna, Austria

2018

- "Global Climate services and climate innovation: Challenges and added-value", 5 Dec. 2018, **Invited Speaker** at the side event of *24th Conference of the Parties to the United Nations Framework Convention on Climate Change (COP24)*, Katowice, Poland
- "Sub-seasonal and seasonal forecasting: Research activities and diagnostic tools", 28 Nov. 2018, **Invited Speaker**, Hydropower Day seminar, SMHI, Norrköping, Sweden
- "Global and continental hydro-climatic forecasting services: challenges and information extraction to meet the user needs", 6 - 8 Mar. 2018, **Invited Speaker** at the *Howard Wheater Symposium – Hydrology 2058: learning from the past, shaping the future* organized by the Global Institute for Water Security, University of Saskatchewan, Saskatoon, Canada
- "SMHI's pan-European seasonal forecasting service: moving from data providers towards knowledge purveyors", 24 - 25 Jan. 2018, **Invited Speaker** at the *Seasonal Forecasting: Meeting User Needs* workshop organized by BHS / Water@Loughborough / Water@Reading, Loughborough, UK
- "EGU 2018 – PICO session HS4.5/NH1.14 - Operational forecasting and warning systems for natural hazards: challenges and innovation", 8-13 April 2018, **Session Convener**, Vienna, Austria

2017

- "Relevant EU-projects for the hydropower sector: IMPREX and S2S4E", 7 Dec. 2017, **Invited Speaker**, organized by Energiforsk, Stockholm, Sweden
- "The pan-European seasonal hydrological forecasting services developed by SMHI for C3S", 23 Nov. 2017, **Invited Speaker**, webinar organized by WMO
- "The pan-European seasonal hydrological forecasting services developed by SMHI for C3S and WW-HYPE developments", 22 Nov. 2017, **Invited Speaker**, Hydropower Day seminar, SMHI, Norrköping, Sweden
- "HYPE-course 2017: Multi-basin modelling using local data in World-Wide HYPE", 4 - 6 Sept. 2017, **Lecturer**, organized by SMHI, Norrkoping, Sweden
- 15th International Conference on Environmental Science and Technology (CEST2017), 31 Aug. - 3 Sept. 2017, Rhodes, Greece. Acting as **convener** and **chairman** in the *Hydrology & Water Resources Management* session.
- "Big Data Analysis in Earth Sciences", 28 Aug. - 1 Sept. 2017, **Scientific Committee** at EarthBiAS 2017 3rd International Summer School, organized by the University of Aegean and the Global Network for Environmental Science and Technology (GNEST), Rhodes, Greece.
- "Advancing hydrological forecasting services at the pan-European scale: A SPACE-O perspective", **Invited Author in the SPACE-O Newsletter**, 15 June 2017, http://www.space-o.eu/advancing-hydrological-forecasting-services-at-the-european-scale-a-space-o-perspective/
- "EGU 2017 – PICO session HS4.5/NH1.13 - Operational forecasting and warning systems for natural hazards: challenges and innovation", 23-28 April 2017, **Session Convener**, Vienna, Austria
- "International workshop on Changes in Water Resources and Adaptation options in the Ganges region", 09-10 March 2017, **Organising and Scientific Committee**, hosted by the Indian National Institute of Hydrology, Roorkee, India

2016

- "Key hydrological challenges at the large scale and lessons learnt", 5 October 2016, **Invited Speaker**, organized by the water and environmental management research center, University of Bristol, Bristol, UK
- "Uncertainty in operational hydrological forecasting: Insights from SMHI's services", **Invited Author in the HEPEX blog**, 15 November 2016, https://hepex.irstea.fr/uncertainty-in-operational-hydrological-forecasting-insights-from-smhis-services/
- "EGU 2016 – PICO session HS4.5/NH1.10 - Operational forecasting and warning systems for natural hazards: challenges and innovation", 17-22 April 2016, **Session Convener**, Vienna, Austria

2015

- "International workshop on Hydro-meteorological modelling and forecasting", 9-10 December 2015, **Invited Speaker**, organized by the Norwegian Water Resources and Energy Directorate (NVE), Lillehammer, Norway
- "International workshop on Changes in Water Resources and Adaptation options in the upper Ganges region", 16-17 November 2015, **Organising and Scientific Committee**, organized by the Indian National Institute of Hydrology, Roorkee, India
- "HEPEX workshop on seasonal hydrological forecasting", 21-23 September 2015, **Organising and Scientific Committee**, organized by HEPEX and the Swedish Meteorological and Hydrological Institute (SMHI), Norrköping, Sweden
- "Big Data Analysis in Earth Sciences", 31-4 September 2015, **Scientific Committee** at EarthBiAS 2015 International Summer School, organized by the University of Aegean and the Global Network for Environmental Science and Technology (GNEST), Rhodes, Greece

2014

- "SMHI's goals for seasonal hydrological forecasting at the pan-European scale and Sweden", **Invited Guest Author in the HEPEX blog**, 5 December 2014, http://hepex.irstea.fr/smhis-goals-for-seasonal-hydrological-forecasting-at-the-pan-european-scale-and-sweden/
- "Summer course on hydrological modelling at the pan-European scale", 29-30 July 2014, **Lecturer**, organized by the Swedish Meteorological and Hydrological Institute (SMHI), Norrköping, Sweden
- "Big Data Analysis in Earth Sciences", 7-11 July 2014, **Scientific Committee** at EarthBiAS 2014 International Summer School, organized by the University of Aegean and the Global Network for Environmental Science and Technology (GNEST), Rhodes, Greece

2013

- International Conference on Climate Change Impacts and Societal Adaptation (CCISA 2013), 6-8 November 2013, Kinshangarh, India. Acting as **conference organiser**.
- 13th International Conference on Environmental Science and Technology (CEST2013), 5-7 September 2013, Athens, Greece. Acting as **co-convener** and **chairman** in the *Hydrology & Water Resources Management* session. The session was convened by Christian Onof (Imperial College London), Thorsten Wagener (University of Bristol), Demetris F. Lekkas (University of Aegean) and Ilias G. Pechlivanidis

2012

- "The India-HYPE project focus", 31 October 2012, **Invited Speaker** - presented at the National Institute of Hydrology, Roorkee, India
- "Analysis and Simulation of Environmental Systems", 4-22 June 2012, **Scientific Committee** at MAENDI 2012 International Summer School, organized by the University of Aegean, Samos, Greece

2011

- 12th International Conference on Environmental Science and Technology (CEST2011), 8-10 September 2011, Rhodes Island, Greece. Acting as **co-convener** and **chairman** in the *Hydrological modeling and uncertainty* session. The session was convened by Christian Onof (Imperial College London), Demetris Koutsoyiannis (National Technical University of Athens), Demetris F. Lekkas (University of Aegean) and Ilias G. Pechlivanidis

2010

- *"Diagnostic Model Evaluation and the Use of Entropy as a Model Diagnostic in Rainfall-Runoff Modelling"*, May 2010, **Invited Speaker** - organized by the Department of Civil and Environmental Engineering, National Technical University of Athens, Greece
- *"Effects of Spatial Rainfall on Floods: New Insights"*, February 2010, **Invited Speaker** - organized by the School of Geography, Environment and Earth Sciences, Victoria University of Wellington, New Zealand

JOURNAL EDITOR

2023-2024 **Guest Editor** in the ***Natural Hazzards and Earth System Sciences (NHESS)*** journal. Special issue on "Forecast-based Action and Impact-based Forecasting"
2018-2019 **Guest Editor** in the ***WATER*** journal. Special issue on "Hydrology, Water Resources Management and Protection of the Marine Environment"
2016-2019 **Guest Editor** in ***Hydrology and Earth System Sciences (HESS)*** journal. Special issue on "Seasonal Hydrological Forecasting"
2017-2019 **Guest Editor** in ***Hydrology and Earth System Sciences (HESS)*** journal. Special issue on "The Changing Water Cycle of the Indogangetic plains"
2012-2019 **Associate Editor** on *Hydrology & Water Resources* for the ***Global NEST*** Journal
2015 **Guest Editor** in the special issue of the ***Global NEST*** Journal *"Climate Change Impacts and Societal Adaptation in the Indian Subcontinent"*. The editorial board consists of D. Sharma (Central University of Rajasthan), D.F. Lekkas (University of Aegean) & I.G. Pechlivanidis
2012 **Guest Editor** in the special issue of the ***Global NEST*** Journal "*Water Resources, Hydrology & Hydraulics: Bringing together recent developments in technology and applications"* (vol. 14, no. 3, pp. 253-392). The editorial board consisted of C. Onof (Imperial College London), D.F. Lekkas (University of Aegean) and I.G. Pechlivanidis

JOURNAL REVIEWER

- Nature Communications
- Nature Scientific Reports
- WIREs Water
- Water Resources Research
- HESS and NHESS
- Environmental Modelling & Software
- Geoscientific Model Development
- Journal of Hydroinformatics
- Environmental Research Letters
- Hydrology Research
- Hydrological Processes
- Hydrological Sciences Journal
- Journal of Hydrologic Engineering
- Global Nest Journal
- Urban Water Journal
- Water Resources Management

EXTERNAL EXPERT AND PROJECT EVALUATOR

2022-Today Reviewer of WMO's reports, i.e. State of Global Water Resources (2022-2025); Scientific Advisory Panel Vision paper; Hydrological Research Strategy 2022-2030: Operational Hydrology Research Priorities
2016-Today Student **prize evaluator** for the EGU conferences, Vienna, Austria
2012-2016 **External expert** for the "Prediction of streamflow - Regionalisation of rainfall-runoff models in Korea" project; funded by the Korean Research Foundation
2012 **Evaluator** of Romanian funding programs for research; sponsored by the National Council for Research and Development
2010 Student **prize evaluator** for the iEMSs 2010 conference, July, Ottawa, Canada

SKILLS

COMPUTING

- MATLAB
- R
- Python
- ArcGIS / QGIS / Global Mapper
- Compaq Visual FORTRAN
- Bi cluster (National Supercomputer Centre)
- LUCI* (involved in the development)
- SPSS
- LaTex
- Mendeley / EndNote
- LabVIEW
- Windows / iOS

*LUCI is a multi-criteria GIS toolbox implemented for spatially explicit evaluation of trade-offs in changing land use on hydrology, productivity and biodiversity (https://www.lucitools.org/).

LANGUAGES

- English (fluent)
- Swedish (good)
- Greek (mother tongue)

OTHER SKILLS

Valid EU driving licence acquired in June 2000

PUBLICATIONS AND CONFERENCE CONTRIBUTIONS

JOURNAL PUBLICATIONS (5 RECOMMENDED ARE HIGHLIGHTED WITH BOLD)

2026

JH1 Koutroulis, A., Savelli, E., Tosic, M. et al., 2026. '*Promises and pitfalls of climate adaptation tools across the Mediterranean*', Commun Earth Environ, https://doi.org/10.1038/s43247-026-03795-3

JH2 Emerton, R., S. J. van Andel, K. Egan, et al. 2026. '*How Good Is Your Forecast? The Importance of User-Centred, Decision-Relevant Evaluation of Forecasts and Climate Services*' Meteorological Applications, 33, 5: e70234, https://doi.org/10.1002/met.70234

JH3 Mohammadi, B., Yang, W., Cheraghalizadeh, M., and Pechlivanidis, I., 2026. *'Optimal distribution functions for drought characterization across Europe's climatic gradient'*, Journal of Hydrology: Regional Studies, 67, 103907, https://doi.org/10.1016/j.ejrh.2026.103907

JH4 Wamucii, C.N., Ziogas, A., Pechlivanidis, I.G., Di Baldassarre, G., Van Loon, A., Mazzoleni, M., 2026. '*Modelling the interplay between sectoral power asymmetries and the use of climate services*', Climate Services 43, 100694. https://doi.org/10.1016/j.cliser.2026.100694

JH5 Guimarães, G. M., Ramos, M.-H., and Pechlivanidis, I., 2026. '*Characterizing low and high flow spells and their temporal transitions using baseflow estimates*', Hydrol. Earth Syst. Sci., 30, 4245–4269, https://doi.org/10.5194/hess-30-4245-2026

JH6 Olsson, J., Du, Y., Pechlivanidis, I. et al. 2026. '*Building on quicksand: the paradox of AI advances and declining in situ networks in hydrometeorology*', npj Nat. Hazards 3, 52. https://doi.org/10.1038/s44304-026-00237-0

JH7 Shyrokaya, A., Uttarwar, S., Samantaray, A., Pappenberger, F., Di Baldassarre, G., Pechlivanidis, I., et al. 2026. '*Seasonal pre-planting drought impact-based forecasting of crop yield in India*', Earth's Future, 14, e2025EF007128. https://doi.org/10.1029/2025EF007128

JH8 Merlo, M., Giuliani, M., Du, Y, Pechlivanidis, I.G., Castelletti, A., 2026. '*Tracking shifts in European drought hotspots*', Environ. Res. Lett., DOI: 10.1088/1748-9326/ae4ca7

JH9 Orieschnig, C., Adla, S., Chun, K. P., Srivastava, S., Morovati, K., Howard, B. C., … Zappa, M., 2026. '*Effective science communication in the face of water crises: a community perspective on challenges and best practice in HELPING*', Hydrological Sciences Journal, 1–18. https://doi.org/10.1080/02626667.2026.2625282

JH10 Biella, R., Shyrokaya, A., Pechlivanidis, I., Cid, D., Llasat, M. C., Tootoonchi, F., Wens, M., Lam, M., Stenfors, E., Sutanto, S., Ridolfi, E., Ceola, S., Alencar, P., Di Baldassarre, G., Ionita, M., de Brito, M. M., McGrane, S. J., Moccia, B., Nagavciuc, V., Russo, F., Krakovska, S., Todorovic, A., Trambauer, P., Vignola, R., and Teutschbein, C., 2026. '*Lessons learned in institutional preparedness and response during the 2022 European drought*', Nat. Hazards Earth Syst. Sci., 26, 955–979, https://doi.org/10.5194/nhess-26-955-2026

JH11 Pechlivanidis, I.G., Afentoulidis, S., Di Baldassarre, G., Pappenberger, F., Salamon, P., and Uhlenbrook, S., 2026. *'How personalized disaster warnings can save lives'*, Nat Hum Behav. https://doi.org/10.1038/s41562-026-02405-8

JH12 Clemenzi, I., Du, Y., and Pechlivanidis, I., 2026. *'Attributing European runoff changes to climatic drivers under future conditions'*, Journal of Hydrology, 668, 134794, https://doi.org/10.1016/j.jhydrol.2025.134794

2025

JH13 Canedo Rosso, C., Nyberg, L., and Pechlivanidis, I., 2025. *'Drought hazard assessment across Sweden's diverse hydro-climatic regimes'*, Nat. Hazards Earth Syst. Sci., 25, 4577–4592, https://doi.org/10.5194/nhess-25-4577-2025

JH14 Biella, R., and CoAuthors, 2025. *'The 2022 drought needs to be a turning point for European drought risk management'*, Nat. Hazards Earth Syst. Sci., 25, 4475–4501, https://doi.org/10.5194/nhess-25-4475-2025

JH15 Pechlivanidis, I.G., and Crochemore, L., 2025. '*Skill-informed seamless communication of European S2S hydrological forecasts*', Environ. Res. Lett., 20, 0740041, https://doi.org/10.1088/1748-9326/ade0d7

JH16 Casado-Rodríguez, J., and Coauthors, 2025. 'Optimising warnings for hydrologic ensemble prediction systems for improved decision making', J. Hydrometeor., https://doi.org/10.1175/JHM-D-24-0054.1

JH17 Pechlivanidis, I.G., and CoAuthors, 2025. '*Enhancing Research-to-Operations in Hydrological Forecasting: Innovations Across Scales and Horizons*', Bull. Amer. Meteor. Soc., 106, E894–E919, https://doi.org/10.1175/BAMS-D-24-0322.1

JH18 Du, Y., & Pechlivanidis, I.G., 2025. 'Hybrid approaches enhance hydrological model usability for local streamflow prediction', Nature Communications Earth & Environment, 6, 334, https://doi.org/10.1038/s43247-025-02324-y

JH19 Pechlivanidis, I.G., Musuuza, J., 2025. '*Customizing large-scale hydrological models: Harnessing the open data realm for impactful local applications*', Journal of Hydrology: Regional Studies, 59, 102390, https://doi.org/10.1016/j.ejrh.2025.102390

JH20 Shyrokaya, A., Pappenberger, F., Messori, G., Pechlivanidis, I., Cloke, H., Di Baldassarre, G., 2025. '*How good is my drought index? Evaluating predictability and ability to estimate impacts across Europe*', Environ. Res. Lett., 20, 034051, https://doi.org/10.1088/1748-9326/adb869

JH21 Girons Lopez, M., Bosshard, T., Crochemore, L., Pechlivanidis, I.G., 2025, 'Leveraging GCM-based forecasts for enhanced seasonal streamflow prediction in diverse hydrological regimes', Journal of Hydrology, 650, 132504, https://doi.org/10.1016/j.jhydrol.2024.132504

2024

JH22 Van Loon, A. F., Kchouk, S., Matanó, A., Tootoonchi, F., Alvarez-Garreton, C., … Werner, M., 2024. *'Review article: Drought as a continuum – memory effects in interlinked hydrological, ecological, and social systems'*, Nat. Hazards Earth Syst. Sci., 24, 3173–3205, https://doi.org/10.5194/nhess-24-3173-2024

JH23 Arheimer, B., Cudennec, C., Castellarin, A., Grimaldi, S., Heal, K. V., Lupton, C., … Xia, J., 2024. *'The IAHS Science for Solutions decade, with Hydrology Engaging Local People IN one Global world (HELPING)'*, Hydrological Sciences Journal, 69(11), 1417–1435. https://doi.org/10.1080/02626667.2024.2355202

JH24 Crochemore, L., and Coauthors, 2024. *'A framework for joint verification and evaluation of seasonal climate services across socio-economic sectors'*, Bull. Amer. Meteor. Soc., 105, E1218–E1236, https://doi.org/10.1175/BAMS-D-23-0026.1

JH25 Klehmet, K., Berg, P., Bozhinova, D., Crochemore, L., Du, Y., Pechlivanidis, I., Photiadou, C., & Yang, W., 2024. *'Robustness of hydrometeorological extremes in surrogated seasonal forecasts'*, International Journal of Climatology, 1–14. https://doi.org/10.1002/joc.8407

JH26 Wörman, A., Pechlivanidis, I., Mewes, D. et al. 2024. *'Spatiotemporal management of solar, wind and hydropower across continental Europe'*. Nature Communications Engineering, 3, 3, https://doi.org/10.1038/s44172-023-00155-3

JH27 Shyrokaya, A., Messori, G., Pechlivanidis, I., Pappenberger, F., Cloke, H., & Di Baldassarre, G., 2024. *'Significant relationships between drought indicators and impacts for the 2018–2019 drought in Germany'*, Environmental Research Letters, 19, 014037, DOI 10.1088/1748-9326/ad10d9

2023

JH28 Shyrokaya, A., Pappenberger, F., Pechlivanidis, I., Messori, G., Khatami, S., Mazzoleni,M., & Di Baldassarre, G., 2023. *'Advances and gaps in the science and practice of impact-based forecasting of droughts'*, WIREs Water, e1698. https://doi.org/10.1002/wat2.1698

JH29 Du, Y., Clemenzi, I., & Pechlivanidis, I. G., 2023, '*Hydrological regimes explain the seasonal predictability of streamflow extremes*', Environmental Research Letters, 18, 094060, DOI 10.1088/1748-9326/acf678

JH30 Cantone, C., Ivars Grape, H., El Habash, S., & Pechlivanidis, I. G., 2023, '*A co-generation success story: Improving drinking water management through hydro-climate services*', Climate Services, 31, https://doi.org/10.1016/j.cliser.2023.100399

JH31 Hurkmans, R. T., van den Hurk, B., Schmeits, M., Wetterhall, F., & Pechlivanidis, I. G., 2023, '*Seasonal streamflow forecasting for fresh water reservoir management in the Netherlands: an assessment of multiple prediction systems*', J. Hydrometeor., https://doi.org/10.1175/JHM-D-22-0107.1

JH32 Pimentel, R., Arheimer, B., Crochemore, L., Andersson, J.C., Pechlivanidis, I.G., & Gustafsson, D., 2023, *'Which Potential Evapotranspiration Formula to Use in Hydrological Modelling World-wide?'* Water Resources Research, 59, e2022WR033447. https://doi.org/10.1029/2022WR033447

JH33 Musuuza J. L., Crochemore L., Pechlivanidis I. G., 2023, *'Evaluation of earth observations and in situ data assimilation for seasonal hydrological forecasting'*, Water Resources Research, 59, e2022WR033655. https://doi.org/10.1029/2022WR033655

JH34 Varlas G., et al., 2023, '*Increasing trends in discharge maxima of a Mediterranean river during early autumn*', Water, 15(6), 1022, https://doi.org/10.3390/w15061022

JH35 Dasgupta, A., et al., 2023, '*Connecting hydrological modelling and forecasting from global to local scales: Perspectives from an international joint virtual workshop*'. Journal of Flood Risk Management, e12880. https://doi.org/10.1111/jfr3.12880

2022

JH36 Sebok, E., et al., 2022, '*Use of expert elicitation to assign weights to climate and hydrological models in climate impact studies*', Hydrol. Earth Syst. Sci., 26, 5605–5625, https://doi.org/10.5194/hess-26-5605-2022

JH37 Hempelmann, N., et al., 2022, '*Deployment of AI-enhanced services in climate resilience information systems*', The International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences, 187-194, doi:10.5194/isprs-archives-XLVIII-4-W1-2022-187-2022

JH38 Du T.L.T., et al., 2022, '*Streamflow Prediction in Highly Regulated, Transboundary Watersheds Using Multi-Basin Modelling and Remote Sensing Imagery*', Water Resources Research, https://doi.org/10.1029/2021WR031191

JH39 Papacharalampous G., Tyralis H., Pechlivanidis I.G., Grimaldi S., Volpi E., 2022, 'Massive feature extraction for explaining and foretelling hydroclimatic time series forecastability at the global scale', Geoscience Frontiers, https://doi.org/10.1016/j.gsf.2022.101349

JH40 White C., et al., 2022, '*Advances in the application and utility of subseasonal-to-seasonal predictions*', Bull. Amer. Meteor. Soc., https://doi.org/10.1175/BAMS-D-20-0224.1

2021

JH41 Ziogas A., Pechlivanidis I.G., Romas E., Tzimas A., 2021, '*Climate service derived indicators to assess the impact of climate change on river assimilative capacity*', Climate Services, https://doi.org/10.1016/j.cliser.2021.100250

JH42 Crochemore L., Cantone C., Pechlivanidis I.G., Photiadou C., 2021, '*How does seasonal forecast performance influence decision-making? Insights from a serious game*', Bulletin of the American Meteorological Society, https://doi.org/10.1175/BAMS-D-20-0169.1

JH43 Girons Lopez, M., Crochemore, L., Pechlivanidis, I.G., 2021, '*Benchmarking an operational hydrological model for providing seasonal forecasts in Sweden*', Hydrol. Earth Syst. Sci., 25, 1189-1209, https://doi.org/10.5194/hess-25-1189-2021

2020

JH44 Giuliani M., Crochemore L., Pechlivanidis I.G., Castelletti A., 2020, '*From skill to value: isolating the influence of end user behavior on seasonal forecast assessment*', Hydrol. Earth Syst. Sci., 24, 5891-5902, https://doi.org/10.5194/hess-24-5891-2020

JH45 Kiesel J., Stanzel P., Kling H., Jähnig S., Fohrer N., Pechlivanidis I.G., 2020, *'Streamflow-based evaluation of climate model sub-selection methods for impact assessments'*, Climatic Change, https://doi.org/10.1007/s10584-020-02854-8

JH46 Hundecha Y., Arheimer B., Berg P., Capell R., Musuuza J., Pechlivanidis I.G., Photiadou C., 2020, *'Effect of model calibration strategy on climate projections of hydrological indicators at a continental scale'*, Climatic Change, https://doi.org/10.1007/s10584-020-02874-4

JH47 Macian-Sorribes H., Pechlivanidis I.G., Crochemore L., Pulido-Velazquez M., 2020, '*Fuzzy post-processing to advance the quality of continental seasonal hydrological forecasts for river basin management*', Journal of Hydrometeorology, doi: https://doi.org/10.1175/JHM-D-19-0266.1

JH48 Wörman A., Bertacchi Uvo C., Brandimarte L., Busse S., Crochemore L., Girons Lopez M., Hao S., Pechlivanidis I.G., Riml J., 2020, '*Virtual energy storage gain resulting from the spatio-temporal coordination of hydropower over Europe*', Applied Energy, doi: 10.1016/j.apenergy.2020.115249

JH49 Pechlivanidis, I.G., Crochemore, L., Rosberg, J., & Bosshard, T., 2020, '*What are the key drivers controlling the quality of seasonal streamflow forecasts?*' Water Resources Research, 56, e2019WR026987. https://doi.org/10.1029/2019WR026987

JH50 Contreras E., Herrero J., Crochemore L., Pechivanidis I.G., Photiadou C., Aguilar C., Polo M.J., 2020, '*Advances in the definition of needs and specifications for a climate service tool aimed at small hydropower plants operation and management*', Energies, 13, 1827, https://doi.org/10.3390/en13071827

JH51 Lavers D., Ramos M-H., Magnusson L., Pechlivanidis I.G., Klein B., Prudhomme C., Arnal L., Crochemore L., van den Hurk B., Weerts A., Harrigan S., Cloke H., Richardson D., Pappenberger F., 2020, *'A vision for hydrological prediction'*, Atmosphere, 11(3), 237, https://doi.org/10.3390/atmos11030237

JH52 Musuuza J., Gustafsson D., Pimentel R., Crochemore L., Pechlivanidis I.G., 2020, '*Impact of satellite and in-situ data assimilation on hydrological predictions*', Remote Sensing, 12, 811, https://doi.org/10.3390/rs12050811

JH53 Crochemore L., Ramos M-H., Pechlivanidis I.G., 2020, '*Can continental model convey useful seasonal hydrologic information at the catchment scale?*', Water Resources Research, 56, e2019WR025700. https://doi.org/10.1029/2019WR025700

2018

JH54 Nijzink R.C., Almeida S., Pechlivanidis I.G., Capell R., Gustafsson D., Arheimer B., Parajka J., Freer J., Han D., Wagener T., Nooijen R.R.P., Savenije H.H.G., Hrachowitz M., 2018, '*Constraining conceptual hydrological models with multiple information sources*' Water Resources Research, 54 (10), https://doi.org/10.1029/2017WR021895

JH55 Pechlivanidis I.G., Gupta H., Bosshard T., 2018, '*An information theory approach to identifying a representative subset of hydro-climatic simulations for impact modeling studies*', Water Resources Research, doi:10.1029/2017WR022035.

2017

JH56 Krysanova, V., Vetter T., Eisner S., Huang S., Pechlivanidis I.G., Strauch M., Aich V., Arheimer B., Chamorro A., Gelfan A., van Griensven A., Kumar R., Kundu D., Lobanova A., Mishra V., Plötner S., Reinhardt J., Seidou O., Wang X., Wortmann M., Zeng X., Hattermann F.F., 2017, Intercomparison of regional-scale hydrological models and climate change impacts projected for 12 large river basins worldwide – A synthesis, *Environ. Res. Lett.*, 12(10), doi:10.1088/1748-9326/aa8359.

JH57 Pechlivanidis, I. G., McIntyre N., Wheater H. S., 2017, The significance of spatial variability of rainfall on simulated runoff: an evaluation based on the Upper Lee catchment, UK, *Hydrol. Res.*, 1–13, doi:10.2166/nh.2016.038.

JH58 Pechlivanidis I.G., Arheimer B., Donnelly C., Hundecha Y., Huang S., Aich V., Samaniego L., Eisner S., Shi P., 2017, *'Analysis of hydrological extremes at different hydro-climatic regimes under present and future conditions'*, Clim. Change, 141, 467-481, doi:10.1007/s10584-016-1723-0.

JH59 Samaniego L., Kumar R., Breuer L, Chamorro A., Flörke M., Pechlivanidis I.G., Schäfer D., Shah H., Vetter T., Wortmann M., Zeng X., 2017, *'Propagation of forcing and model uncertainty into hydrological drought characteristics in a multi-model century-long experiment in continental river basins'*, Clim. Change, 141, 435-449, doi:10.1007/s10584-016-1778-y.

JH60 Vetter T., Reinhardt J., Flörke M., van Griensven A., Hattermann F., Huang S., Koch H., Pechlivanidis I.G., Plötner S., Seidou O., Buda S., Vervoort W., Krysanova V., 2017, *'Evaluation of sources of uncertainty in projected hydrological changes under climate change in 12 large-scale river basins'*, Clim. Change, 141, 419-433, doi:10.1007/s10584-016-1794-y.

JH61 Olsson, J., Pers B.C., Bengtsson L., Pechlivanidis I.G., Berg P., Körnich H., 2017, '*Distance-dependent depth-duration analysis in high-resolution hydro-meteorological ensemble forecasting: A case study in Malmö City, Sweden*', *Environ. Model. Softw.*, *93*, 381–397, doi:10.1016/j.envsoft.2017.03.025.

2016

JH62 Nijzink R., Hutton C., Pechlivanidis I.G., Capell R., Arheimer B., Freer J., Han D., Wagener W., McGuire K., Savenije H., Hrachowitz M., 2016, *'The evolution of root-zone moisture capacities after deforestation: a step towards hydrological predictions under change?'*, Hydrol. Earth Syst. Sci., 20, 4775-4799, doi:10.5194/hess-20-4775-2016.

JH63 Pechlivanidis I.G., Olsson J., Bosshard T., Sharma D., Sharma K.C., 2016, *'Multi-basin modelling of future hydrological fluxes in the Indian subcontinent'*, Water Journal, 8(5), 177, 1-21, doi: 10.3390/w8050177

JH64 Hundecha Y., Arheimer B., Donnelly C., Pechlivanidis I.G., 2016, *'A regional parameter estimation scheme for a pan-European multi-basin model'*, Journal of Hydrology: Regional Studies, doi: 10.1016/j.ejrh.2016.04.002

JH65 Pechlivanidis I.G., Jackson B., McMillan H., Gupta H., 2016, *'Robust informational entropy-based descriptors of flow in catchment hydrology'*, Hydrological Sciences Journal, 61(1), 1-18, doi: 10.1080/02626667.2014.983516

2015

JH66 Pechlivanidis I.G., Arheimer, B., 2015, *'Large-scale hydrological modelling by using modified PUB recommendations: the India-HYPE case'*, Hydrol. Earth Syst. Sci., 19, 4559-4579, doi: 10.5194/hess-19-4559-2015

JH67 Pechlivanidis I.G., Olsson J., Sharma D., Bosshard T., Sharma K.C., 2015, *'Assessment of the climate change impacts on the water resources of the Luni region, India'*, Global NEST Journal, 17(1), 29-40

JH68 Andersson J.C.M., Pechlivanidis I.G., Gustafsson D., Donnelly C., Arheimer B., 2015, *'Key factors for improving large-scale hydrological model performance'*, European Water, 49, 77-88.

JH69 Pechlivanidis I.G., Anastasiadis S., Lekkas D.F., 2015, *'Development and testing of the MWBMT toolbox to predict runoff response at the ungauged catchment of Mornos, Greece'*, European Water, 49, 3-18.

JH70 Keramaris E., Pechlivanidis G.I., Pechlivanidis I.G., 2015, 'The different impact of half-separated gravel and vegetated bed in open channels', Environmental Processes, 2(1): 123-132, doi: 10.1007/s40710-015-0103-5

JH71 Pechlivanidis G.I., Keramaris E., Pechlivanidis I.G., 2015, 'Experimental study of the effects of grass vegetation and gravel bed on the turbulent flow using particle image velocimetry', Journal of Turbulence, 16(1): 1-14, doi: 10.1080/14685248.2014.946605

JH72 Pechlivanidis G.I., Keramaris E., Pechlivanidis I.G., Samaras G.A., 2015, *'Shear stress estimation in the linear zone over impermeable and permeable beds in open channels'*, Desalination and Water Treatment, 58(4): 2181-2189, doi: 10.1080/19443994.2014.933622

2014

JH73 Pechlivanidis I.G., Jackson B., McMillan H., Gupta H., 2014, *'Use of an entropy-based metric in multi-objective calibration to improve model performance'*, Water Resources Research, 50, 8066-8083, doi: 10.1002/2013WR014537

JH74 Pechlivanidis, I.G., Bosshard, T., Spångmyr, H., Lindström, G., Gustafsson, D., and Arheimer, B., 2014, *'Uncertainty in the Swedish Operational Hydrological Forecasting Systems'*, ASCE: Vulnerability, Uncertainty, and Risk, 253-262. doi: 10.1061/9780784413609.026

2013

JH75 Anastasiadis S., Boglis A., Pechlivanidis I.G., Lekkas D.F., Baltas E., 2013, *'Application of GIS-based Clark's Unit hydrograph and transfer function model to describe runoff response in a small catchment - Case study: Lykoremma River, Greece'*, Fresenius Environmental Bulletin, 22(7B), 2152-2158

2012

JH76 Lekkas D.F., Pechlivanidis I.G., Onof C., 2012, *'Foreword: Water Resources, Hydrology and Hydraulics: Bringing together recent developments in technology and applications'*, Global NEST Journal, 14, ISSN: 1790-7632

JH77 Pechlivanidis I.G., Jackson B., McMillan H., Gupta H., 2012, *'Using an informational entropy-based metric as a diagnostic of flow duration to drive model parameter identification'*, Global NEST Journal, 14(3): 325-334

JH78 Pechlivanidis G.I., Keramaris E., Pechlivanidis I.G., Samaras G.A., 2012, *'Measuring the turbulent characteristics in an open channel using the PIV method'*, Global NEST Journal, 14(3): 378-385

2011

JH79 Pechlivanidis I.G., Jackson B., McIntyre N., Wheater H.S., 2011, *'Catchment scale hydrological modelling: A review of model types, calibration approaches and uncertainty analysis methods in the context of recent developments in technology and applications'*, Global NEST Journal, 13 (3): 193-214

2010

JH80 Pechlivanidis I.G., McIntyre N., Wheater H.S., 2010, *'Calibration of the semi-distributed PDM rainfall-runoff model in the Upper Lee catchment, UK'*, Journal of Hydrology, 386 (1-4): 198-209

2006

JH81 Akratos C.S., Tsihrintzis V.A., Pechlivanidis I.G., Sylaios G.K., Jerrentrup H., 2006, *'A free water surface constructed wetland for the treatment of agricultural drainage entering Vassova Lagoon, Kavala, Greece'*, Fresen. Environ. Bull. Vol. 15, No. 7/8/9 (Reference No. F-25-382 MESAEP)

CONFERENCE PROCEEDINGS / CONTRIBUTIONS

2026

CH1 Bertini, C., Du, Y., van Andel, S. J., and Pechlivanidis, I.: AI-based seasonal probabilistic hydrological forecasts across Europe, EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-11878, https://doi.org/10.5194/egusphere-egu26-11878, 2026.

CH2 Guimarães, G. M., Ramos, M.-H., and Pechlivanidis, I.: Understanding temporal transitions and spatial connections of high and low flow spells at local and regional scales, EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-7343, https://doi.org/10.5194/egusphere-egu26-7343, 2026.

CH3 Mohammadi, B., Yang, W., Rosberg, J., and Pechlivanidis, I.: An Interactive Shiny Dashboard for Probabilistic Drought Risk Assessment in Europe Using Seasonal Forecast Ensembles of SPI and SSI, EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-9117, https://doi.org/10.5194/egusphere-egu26-9117, 2026.

CH4 Terskii, P., Du, Y., Brendel, C., Pechlivanidis, I., and Bartosova, A.: From continent to coast: advances in HYPE hydrological model calibration and AI-based model enhancement, EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-10607, https://doi.org/10.5194/egusphere-egu26-10607, 2026.

CH5 Du, Y., Canedo Rosso, C., Bertolatus, S., and Pechlivanidis, I. G.: Seasonal Predictability of Hydrometeorological Drought in Sweden, EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-3343, https://doi.org/10.5194/egusphere-egu26-3343, 2026.

CH6 Canedo Rosso, C., Mohammadi, B., Merlo, M., Giuliani, M., Pechlivanidis, I., and Du, Y.: Drought impact-based forecasting of crop yield in Sweden through a machine-learning framework, EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-7652, https://doi.org/10.5194/egusphere-egu26-7652, 2026.

CH7 Pechlivanidis, I. and Uhlenbrook, S. and the WMO TT-HydroResearch members: From Strategy to Action: Strengthening Global Hydrological Research within WMO, EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-7321, https://doi.org/10.5194/egusphere-egu26-7321, 2026.

CH8 White, C., Rivoire, P., Walpole, O., Ramos, A., Wegmann, M., Russo, A., Pechlivanidis, I., Bloomfield, H., Larsen, M., Robbins, J., Arosio, M., Šakić Trogrlić, R., de Ruiter, M., De Angeli, S., O'Loughlin, F., Domeisen, D., Caltabiano, N., Ribeiro, A., and Hronček, S.: ANTICIPATE COST Action: extended-range multi-hazard predictions and early warnings, EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-4949, https://doi.org/10.5194/egusphere-egu26-4949, 2026.

CH9 Merheb, M., Hall, C., Amanambu, A., Aslam, H., Hossain, S., Chun, K., Fradi, F., Choukrani, H., Ceperley, N., Cudennec, C., Castelli, G., Udayar PIllai, S., Panchanathan, A., Koren, G., Llsat, M. C., Howard, B., and Ouarani, M. and the CCWK WG Review paper team: What does co-creation of knowledge look like in water sciences? , EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-12326, https://doi.org/10.5194/egusphere-egu26-12326, 2026.

CH10 Facer-Childs, K., Barker, L., Thober, S., Berg, P., de Graaf, I., Kelbling, M., Klehmet, K., Macleod, K., Samaniego, L., Vignola, R., Sutanudjaja, E., Wanders, N., Harrigan, S., and Cagnazzo, C. and the C3S Water Service Team: The C3S Water Service: Operational seasonal forecasts and climate change

projections co-developed for the water sector , EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-7573, https://doi.org/10.5194/egusphere-egu26-7573, 2026.

CH11 Tsilimigkras, A., Pagé, C., Tošić, M., Lazić, I., Savelli, E., and Koutroulis, A. and the FutureMed WG2: From Mapping to Action: ADAPT-TOOLS and What We Learn from the Mediterranean CCA Toolscape, EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-14429, https://doi.org/10.5194/egusphere-egu26-14429, 2026.

CH12 Biella, R., Shyrokaya, A., and Ionita, M. and the Drought in the Anthropocene (DitA) working group - Panta Rhei/HELPING: Lessons from the 2022 European Drought through an Interdisciplinary Lens: working with the Drought in the Anthropocene (DitA) Network, EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-22719, https://doi.org/10.5194/egusphere-egu26-22719, 2026.

2025

CH13 Pechlivanidis I.G. et al.: Bridging Science and Services: The WMO Operational Hydrology Research Strategy 2030, 2nd Regional Scientific Forum of RA VI "Bridging research and operations in an Earth-system approach – Increasing water and heat resilience in RA VI", 4-6 Nov. 2025.

CH14 Pechlivanidis I.G. and Du, Y.: AI for Hydrology: From Continental Models to Local Predictions, 2nd Regional Scientific Forum of RA VI "Bridging research and operations in an Earth-system approach – Increasing water and heat resilience in RA VI", 4-6 Nov. 2025

CH15 Pechlivanidis I.G. and Du, Y.: Hybrid AI-enhanced hydrological modelling for improving simulations at the local scale, Hydrology ML seminar, 24 Oct. 2025

CH16 Du, Y. and Pechlivanidis, I. G.: Advancing ungauged catchment hydrology through regionalized ML-based post-processing, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-1686, https://doi.org/10.5194/egusphere-egu25-1686, 2025.

CH17 Guimarães, G. M., Ramos, M.-H., and Pechlivanidis, I.: Using streamflow and baseflow separation to characterize spells of low and high flows and their transitions, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-8411, https://doi.org/10.5194/egusphere-egu25-8411, 2025.

CH18 Bertini, C., Du, Y., van Andel, S. J., and Pechlivanidis, I.: AI-based seasonal streamflow forecasts across Europe's hydro-climatic gradient, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-10567, https://doi.org/10.5194/egusphere-egu25-10567, 2025.

CH19 Ziogas, A., Masih, I., Tzimas, A., Romas, E., Pechlivanidis, I., Emerton, R., and Werner, M.: Co-creating multi-scalar climate services tailored to the needs of multiple sectors in Crete, Greece, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-18742, https://doi.org/10.5194/egusphere-egu25-18742, 2025.

CH20 Facer-Childs, K., Bulut, B., Chevuturi, A., Hannaford, J., Tanguy, M., Andersson, J., Du, Y., and Pechlivanidis, I.: Blending Subseasonal-to-Seasonal Hydrological Predictions from Multiple Forecasting Systems, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-1463, https://doi.org/10.5194/egusphere-egu25-1463, 2025.

CH21 Pesquer, L., Pechlivanidis, I., Egan, K., Ziogas, A., Mazzoli, P., Castellana, D., Batlle, A., Prat, E., and Bagli, S.: Experiences from seven living labs in the use of local knowledge and local data for tailored climate services, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-8919, https://doi.org/10.5194/egusphere-egu25-8919, 2025.

CH22 Shyrokaya, A., Uttarwar, S., Di Baldassarre, G., Majone, B., Samantaray, A., Stainoh, F., Pappenberger, F., Pechlivanidis, I., and Messori, G.: Drought impact-based forecasting of crop yield in India, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-16546, https://doi.org/10.5194/egusphere-egu25-16546, 2025.

CH23 Pechlivanidis, I., Ramos, M.-H., and Wood, A. and the team: The 20-year history of HEPEX - Enhancing hydrological forecasting through strategic innovations, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-8059, https://doi.org/10.5194/egusphere-egu25-8059, 2025.

CH24 Pechlivanidis I.G. and Du, Y.: The future of flood forecasting and AI, workshop "Exploring the use of Artificial Intelligence for flood forecasting in Scotland", 23 April 2025.

CH25 Pechlivanidis, I., et al., 2025, 'Strategic innovations in research-to-operations hydrological forecasting: Enhancing value across spatial scales and time horizons', HEPEX 2025 workshop, Tuscaloosa, US, 25–27 Mar 2025, https://hepex.org.au/hepex-2025-workshop-what-happened-in-tuscaloosa/

CH26 Pechlivanidis, I., et al., 2025, 'Advancing hydrological research through the WMO Research Board Task Team on Hydrology Research', HEPEX 2025 workshop, Tuscaloosa, US, 25–27 Mar 2025, https://hepex.org.au/hepex-2025-workshop-what-happened-in-tuscaloosa/

CH27 Du, Y., and Pechlivanidis, I., 2025, 'ML-based regionalization for enhanced hydrological modeling in ungauged basins', HEPEX 2025 workshop, Tuscaloosa, US, 25–27 Mar 2025, https://hepex.org.au/hepex-2025-workshop-what-happened-in-tuscaloosa/

CH28 Bertini, C., et al., 2025, 'AI-based seasonal streamflow forecasts for Europe', HEPEX 2025 workshop, Tuscaloosa, US, 25–27 Mar 2025, https://hepex.org.au/hepex-2025-workshop-what-happened-in-tuscaloosa/

2024

CH29 Petry, I., et al., 2024, 'Predicting the extreme Guaíba flooding of 2024: insights from five global flood forecasting systems', AGU General Assembly 2024, Washington D.C., US, 9–13 Dec 2024, H31D-03, https://agu.confex.com/agu/agu24/meetingapp.cgi/Paper/1537765

CH30 Du, Y., and Pechlivanidis, I., 2024, 'Enhancing Large-Scale Hydro-Climate Services Through a Regionalized Machine Learning Approach', EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-5057, https://doi.org/10.5194/egusphere-egu24-5057

CH31 Canedo Rosso, C., Nyberg, L., and Pechlivanidis, I., 2024, 'Agricultural Drought in Sweden: Assessment of Hazard and Impacts', EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-1646, https://doi.org/10.5194/egusphere-egu24-1646

CH32 Merlo, M., Giuliani, M., Du, Y., Pechlivanidis, I., and Castelletti, A., 2024, 'Advancing drought detection and management using ML enhanced impact-based drought indexes', EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-7875, https://doi.org/10.5194/egusphere-egu24-7875

CH33 Cantone, C., Ivars Grape, H., El Habash, S., and Pechlivanidis, I., 2024, 'Overcoming challenges in the uptake of co-generated hydro-climate services for drinking water management: the inspiring case of SMHI Aqua', EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-18249, https://doi.org/10.5194/egusphere-egu24-18249

CH34 Bennett, J., Pechlivanidis, I., Du, Y., Boucher, M.-A., and Wetterhall, F., 2024, 'What are the top priorities for (co-) creating hydrological forecast systems that add value across spatial scales and time horizons? Outcomes from the 2023 HEPEX workshop', EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-20930, https://doi.org/10.5194/egusphere-egu24-20930

CH35 van Andel, S. J., Bertini, C., Ramos Sánchez, C., Ficchì, A., Giuliani, M., Pezij, M., Lugt, D., De Stefano, L., Pechlivanidis, I., Werner, M., and Castelletti, A., 2024, 'Use-case specific performance assessment of sub-seasonal to seasonal drought predictions for local-scale applications in the Netherlands, Spain, and Italy', EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-21041, https://doi.org/10.5194/egusphere-egu24-21041

CH36 Crochemore, L., Materia, S., and Delpiazzo, E. and the H2020 CLARA project team, 2024, 'Joint verification and evaluation of seasonal forecasts from climate services: Experience from the H2020 CLARA project', EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-11481, https://doi.org/10.5194/egusphere-egu24-11481

CH37 Biella, R., Shyrokaya, A., and Ionita, M. and the Drought in the Anthropocene (DitA) working group - Panta Rhei/HELPING, 2024, 'The 2022 European Drought Needs to be a Turning Point for Drought Risk Management: An Overview from Drivers to Impact and Management', EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-20347, https://doi.org/10.5194/egusphere-egu24-20347

2023

CH38 Pechlivanidis, I., Crochemore, L., 2023, 'Enhancing hydro-climate services through seamless communication of S2S forecasts', AGU General Assembly 2023, San Francisco, US, 11–15 Dec 2023, H31M-05.

CH39 Pechlivanidis, I., 2023, 'Future of flood predictions', WMO RA VI Scientific Forum, 10 Oct. 2023, Bucharest, Romania.

CH40 Uhlenbrook, S., Wood, A., Pechlivanidis, I., Harrigan, S., 2023, 'Water as a crucial resource for life on Earth – Supporting a roadmap for Copernicus water services', Water-ForCE Key Stakeholders workshop, 28 Sept., Brussels, Belgium

CH41 Musuuza, J., Crochemore, L., and Pechlivanidis, I., 2023, 'The role of Earth Observations and in situ data assimilation in seasonal hydrological forecasting', HEPEX workshop, 13-15 Sept., Norrköping, Sweden

CH42 Wörman, A., Pechlivanidis, I., Mewes, D., Riml, J., and Bertacchi Uvo, C., 2023, 'Availability of solar, wind and hydropower across Europe', HEPEX workshop, 13-15 Sept., Norrköping, Sweden

CH43 Shyrokaya, A., et al. 2023, 'Advances and gaps in the science and practice of impact-based forecasting of droughts', HEPEX workshop, 13-15 Sept., Norrköping, Sweden

CH44 Werner, M., et al. 2023, 'A brief history of co-creating and the integration of local knowledges, data and needs in climate services', HEPEX workshop, 13-15 Sept., Norrköping, Sweden

CH45 Crochemore, L., et al. 2023, 'Jointly verifying and evaluating seasonal forecasts from climate services: Experience form the H2020 CLARA project', HEPEX workshop, 13-15 Sept., Norrköping, Sweden

CH46 Cantone, C., Ivars Grape, H., El Habash, S., and Pechlivanidis, I., 2023, 'Advancing drinking water management with hydro-climate services: The co-generation success story of SMHI Aqua', HEPEX workshop, 13-15 Sept., Norrköping, Sweden

CH47 Du, Y., and Pechlivanidis, I., 2023, 'Enhancing seasonal hydrological forecasting via local data integration and machine learning', HEPEX workshop, 13-15 Sept., Norrköping, Sweden

CH48 Pechlivanidis, I., and Musuuza, J. 2023, 'Customizing global hydrological models for local applications: It is not only about informative data!', CEST 2023 conference, 2 Sept, Athens, Greece

CH49 Clemenzi, I., Du, Y., and Pechlivanidis, I., 2023, 'Attributing runoff changes to present and future climate projections across Europe', EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-14063, https://doi.org/10.5194/egusphere-egu23-14063

CH50 Gute, E., Ickes, L., and Pechlivanidis, I., 2023, 'Assessing water observation network settings by hydro-geological sub-sampling of a large data set for Sweden', EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-5491, https://doi.org/10.5194/egusphere-egu23-5491

CH51 Du, Y., Clemenzi, I., and Pechlivanidis, I., 2023, 'Enhancing the seasonal forecasts from large-scale hydro-climate services to better meet the local conditions', EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-6796, https://doi.org/10.5194/egusphere-egu23-6796

CH52 Werner, M., Rastogi, S., van den Homberg, M., Pechlivanidis, I., and Pesquer, L., 2023, 'An introductory review of the integration of local and scientific knowledges in climate services', EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-11515, https://doi.org/10.5194/egusphere-egu23-11515

CH53 Merlo, M., Giuliani, M., Du, Y., Pechlivanidis, I., and Castelletti, A., 2023, 'A pan-European analysis of drought events and impacts', EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-12961, https://doi.org/10.5194/egusphere-egu23-12961

CH54 Shyrokaya, A., Di Baldassarre, G., Cloke, H., Messori, G., Pappenberger, F., and Pechlivanidis, I., 2023, 'Drought impact-based forecasting: Trade-offs between indicators and impacts', EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-1555, https://doi.org/10.5194/egusphere-egu23-1555

CH55 Pechlivanidis, I. and Crochemore, L., 2023, 'European S2S streamflow forecasting: Towards a seamless communication', EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-7168, https://doi.org/10.5194/egusphere-egu23-7168

2022

CH56 Werner M., Masih I., Emerton R., Pechlivanidis I., Schaafsma M., Pesquer L., Di Baldassarre G., van den Homberg M., Mazzoli P., Gamtkitsulashvili M., De Stefano L., Gräler B., Bela G., Tzimas A., 2022, 'Seaming together a patchwork of knowledges: toward co-producing social and behaviourally informed climate services', EMS 2022 conference, 4-9 Sept., Bonn, Germany

CH57 Berg P., Klehmet K., Bozhinova D., Crochemore L., Pechlivanidis I., Photiadou C., Yang W., 2022, 'Robustness of precipitation and streamflow extremes in the surrogate world of seasonal forecasts', IAHS2022, 29 May-3 June, Montpellier

CH58 Musuuza J., Crochemore L., Pechlivanidis I., 2022, 'The impact of assimilating Earth Observation and in-situ data on seasonal hydrological predictions', IAHS2022, 29 May-3 June, Montpellier

CH59 Yang W., Foster K., Pechlivanidis I., 2022, 'Enhancement of seasonal hydrological forecasting with analogue selection of historical years', IAHS2022, 29 May-3 June, Montpellier

CH60 Du Y., Pechlivanidis I., Clemenzi I., 2022, 'How does the seasonal forecast quality of hydrological extremes vary in space and time?', IAHS2022, 29 May-3 June, Montpellier

CH61 Musuuza J., Crochemore L., Pechlivanidis I., 2022, 'The impact of assimilating Earth Observation and in situ data on seasonal hydrological predictions in a snow-dominated river system', EGU2022, 23-27 April, Vienna

CH62 Kandris K., Romas E., Tzimas A., Pechlivanidis I., Bauer P., Joehnk K., Bresciani M., Giardino C., Anstee J., Schaeffer B., Dessena M., 2022, 'Assessing the suitability of multi-spectral satellite data for the development of data-driven models of phytoplankton dynamics in lakes and reservoirs', EGU2022, 23-27 April, Vienna

CH63 Werner M., Masih I., Emerton R., Pechlivanidis I., Schaafsma M., Pesquer L., Di Baldassarre G., van den Homberg M., Mazzoli P., Gamtkitsulashvili M., De Stefano L., Gräler B., Bela G., Tzimas A., 2022, 'I-CISK: Towards a social and behaviourally informed approach to co-producing climate services', EGU2022, 23-27 April, Vienna

CH64 Yang W., Foster K., Pechlivanidis I., 2022, 'Evaluation of different forecasting approaches in predicting the spring flood in Northern Sweden', EGU2022, 23-27 April, Vienna

CH65 Macian-Sorribes H., Vargas-Mora T., Pechlivanidis I., Pulido-Velazquez M., 2022, 'Evaluation of the accuracy of drought-related seasonal forecasts using large-scale hydrological modelling and drought indices', EGU2022, 23-27 April, Vienna

CH66 Du Y., Pechlivanidis I., Clemenzi I., 2022, 'Assessing the seasonal forecast performance of hydrological extremes over Europe', EGU2022, 23-27 April, Vienna

CH67 Ramos M-H., Cudennec C., Cullmann J., Dogulu N., Luterbacher J., Pechlivanidis I., Salzberg A., 2022, 'WMO Hydrological Research Strategy 2022-2030: Operational Hydrology and Water Research Priorities', EGU2022, 23-27 April, Vienna

CH68 Hempelmann N., Alvarez-Castro C., Kadow C., Kindermann S., Ehbrecht C., Plésiat E., Pechlivanidis I., 2022, 'Deployment of scientific climate services for extreme events investigations', EGU2022, 23-27 April, Vienna

CH69 Shyrokaya A., Di Baldassarre G., Messori G., Pechlivanidis I., Pappenberger F., Cloke H., 2022, 'Comparing drought indicators and negative impacts for the 2018–19 Central European drought event', EGU2022, 23-27 April, Vienna

CH70 Bartosova A., Brendel C., Canedo C., Pechlivanidis I., Gustafsson D., Musuuza J., Elenius M., Arheimer B., Capell R., Strömqvist J., Rüther N., Schwarzwälder K., Launay M., Haun S., 2022, 'Advancing large scale hydrological and sediment modelling for hydropower industry operations', HYDRO 2022–Roles of Hydro in the Global Recovery, 25-27 April, Strasbourg, France

2021

CH71 Musuuza J. and Pechlivanidis I., 2021, 'Assessing the impact of Earth Observation and in-situ data assimilation on seasonal hydrological predictions' MODSIM 2021 conference, 5-10 December, Sydney, Australia

CH72 Bartosova A. et al., 2021, 'Advancing large scale hydrological and sediment models for hydropower industry' HYDRO 2021 conference, 25-27 October, Strasbourg, France

CH73 Pechlivanidis I. 2021, 'Keynote presentation: Earth Observations as a driving force to co-evolve the agriculture sector' International Conference, in CEST 2021: Hydrology and Water Resources, 1-4 September, Athens, Greece

CH74 Kandris K. et al., 2021, 'A data-driven approach to predict phytoplankton blooms using satellite-derived water quality and hydrometeorological drivers' International Conference, in CEST 2021: Hydrology and Water Resources, 1-4 September, Athens, Greece

CH75 Pechlivanidis I. and Musuuza J., 2021, 'What is the impact of earth observation and in-situ data assimilation on seasonal hydrological predictions?' International Conference, in CEST 2021: Hydrology and Water Resources, 1-4 September, Athens, Greece

CH76 Pechlivanidis I. et al., 2021, 'Large sample hydrology and its importance in hydrological forecasting' International Conference, in CEST 2021: Hydrology and Water Resources, 1-4 September, Athens, Greece

CH77 Pechlivanidis I. et al., 2021, 'Seasonal hydrological forecasting across scales: similarity patterns and attribution of forecast quality' Joint ECMWF-CEMS-C3S-HEPEX-GFP workshop, 29 June - 1 July

CH78 Musuuza J. et al., 2021, 'Does the assimilation of earth observations and in-situ data affect the seasonal hydrological forecast quality?' Joint ECMWF-CEMS-C3S-HEPEX-GFP workshop, 29 June - 1 July

CH79 Nauta L. et al., 2021, 'Operational multi-model hydrological seasonal forecasts for Europe: development, skill and challenges' Joint ECMWF-CEMS-C3S-HEPEX-GFP workshop, 29 June - 1 July

CH80 Pechlivanidis I. et al., 2021, 'Why is large sample hydrology important in hydrological forecasting?' International Virtual Conference, presented on the European Geosciences Union (vEGU21) General Assembly, 19-30 April

CH81 Photiadou C. et al., 2021, 'Operational water service for Copernicus Climate Change Service: development at European scale' vEGU21, 19-30 April

CH82 Musuuza J. et al., 2021, 'What is the impact of earth observation and in-situ data assimilation on seasonal hydrological forecast quality?' vEGU21, 19-30 April

CH83 Kiesel J. et al., 2021, 'The more is not the merrier – an informed selection of climate model ensembles can enhance the quantification of hydrological change' vEGU21, 19-30 April

CH84 Klehmet K. et al., 2021, 'Robustness of precipitation and river discharge extremes in the surrogate world of seasonal forecasts' vEGU21, 19-30 April

CH85 Yang W. et al., 2021, 'Enhancement of seasonal hydrological forecasting with "pattern-based" large-scale climatology' vEGU21, 19-30 April

CH86 Macian-Sorribes H. et al., 2021, 'Assessing the Water-Energy-Food nexus on the Jucar river system using hydrometeorological forecasting and stochastic hydro-economic programming' vEGU21, 19-30 April

CH87 Matta E. et al., 2021, 'The HYPOS project as a support to the hydroelectric sector' vEGU21, 19-30 April

CH88 Mammas K. et al., 2021, 'A framework to quantify bias for improved drought forecasting' vEGU21, 19-30 April

CH89 Wörman A. et al., 2021, 'Virtual energy storage-gain due to spatiotemporal coordination of wind, solar and hydropower over Europe' vEGU21, 19-30 April

2020

CH90 Photiadou C., Arheimer B., Gyllensvärd F., Berg P., Andersson J., Pechlivanidis I., 2020, 'The HYPEweb global climate and water service: Addressing user needs for water-related sectors by providing scientific estimates of past, present and future water resources across the globe' WMO data conference, 16-19 Nov., Virtual Conference

CH91 Crochemore L., Cantone C., Photiadou C., Pechlivanidis I., 2020, 'Call For Water – A serious game on the role of forecast performance in decision-making' International Conference, presented on the International Environmental Modelling and Software Society (iEMSs), 14-18 Sept., Brussels

CH92 Bosshard T. et al., 2020, 'Continental and global hydro-climatic forecasting services to address user needs for the water-related sectors' International Conference, presented on the European Geosciences Union (EGU) General Assembly, 3-8 May, Vienna, Austria

CH93 Klein B. et al., 2020, 'Does the application of multiple hydrological models improve seasonal streamflow forecasting skill?' International Conference, presented on the European Geosciences Union (EGU) General Assembly, 3-8 May, Vienna, Austria

CH94 Verkade J. et al., 2020, 'HEPEX: Connecting the dots in hydrologic ensemble predictions' International Conference, presented on the European Geosciences Union (EGU) General Assembly, 3-8 May, Vienna, Austria

CH95 Saoudi Y. et al., 2020, 'Assessing the value of hydroclimatic services for hydropower megadams: the case of the Grand Ethiopian Renaissance Dam' International Conference, presented on the European Geosciences Union (EGU) General Assembly, 3-8 May, Vienna, Austria

CH96 Musuuza J. et al., 2020, 'Impact of satellite and in situ data assimilation on hydrological predictions' International Conference, presented on the European Geosciences Union (EGU) General Assembly, 3-8 May, Vienna, Austria

CH97 Pechlivanidis I.G. et al., 2020, 'Seasonal streamflow forecasting – Which are the drivers controlling the forecast quality?' International Conference, presented on the European Geosciences Union (EGU) General Assembly, 3-8 May, Vienna, Austria

CH98 van den Hurk B. et al., 2020, 'Added seasonal forecasting skill from land surface parameterization' International Conference, presented on the European Geosciences Union (EGU) General Assembly, 3-8 May, Vienna, Austria

CH99 Wörman A. et al., 2020, 'Virtual energy storage-gain due to spatiotemporal coordination of hydropower over Europe' International Conference, presented on the European Geosciences Union (EGU) General Assembly, 3-8 May, Vienna, Austria

CH100 Crochemore L., Ramos M-H., Pechlivanidis I., 2020, 'Can continental models convey useful seasonal hydrologic information at the catchment scale?' International Conference, presented on the European Geosciences Union (EGU) General Assembly, 3-8 May, Vienna, Austria

2019

CH101 Macian-Sorribes H., Pechlivanidis I.G., Marcos-Garcia P., Crochemore L., 2019, '*Estimating the added value of seasonal forecasting systems through hydro-economic stochastic programming and model predictive control in the Jucar River Basin (Spain)*', International Conference, presented on the American Geosciences Union (AGU) General Assembly, 9-13 December, San Francisco

CH102 Giuliani M., Crochemore L., Pechlivanidis I., Castelletti A., 2019, 'Isolating the role of end-user behavior in the assessment of seasonal forecast value', International Conference, presented on the American Geosciences Union (AGU) General Assembly, 9-13 December, San Francisco

CH103 Castelletti A., Giuliani M., Ramos M-H., Pulido-Velazquez M., Gustafsson D., Macian-Sorribes H., Crochemore L., Pechlivanidis I., Thirel G., Cassagnole M., 2019, 'Six challenges to successfully inform hydropower operation by improved hydro-meteorological forecasts', International Conference, presented on the American Geosciences Union (AGU) General Assembly, 9-13 December, San Francisco

CH104 Giuliani M., Crochemore L., Pechlivanidis I., Castelletti A., 2019, 'Six challenges to successfully inform hydropower operation by improved hydro-meteorological forecasts', Climate-fit.city – Making climate services a reality in Europe, 13-14 November, Brussels, Belgium

CH105 Giuliani M., Crochemore L., Pechlivanidis I., Castelletti A., 2019, 'Isolating the role of end-user behavior in the assessment of seasonal forecast value', International conference ClimRisk19 (Climate Risk: implications for ecosystem services and society, challenges, solutions), 23-25 October, Trento, Italy

CH106 Salamon P., Thiemig V., Prudhomme C., Schweim C., Garcia-Padilla M., Pechlivanidis I., 2019, 'EFAS - Europäische Hochwasservorhersage und seine Möglichkeiten', National conference organized by BfG (Hydrologische Vorhersagen auf unterschiedlichen Skalen – Methoden, Produkte und Nutzungen), 23-24 September, Koblenz, Germany

CH107 Verkade J., Boucher M-A., Pappenberger F., Pechlivanidis I., Prudhomme C., Ramos M-H, Wang Q.J., Wetterhall F., Wood A., 2019, 'HEPEX: a community of practice for the advancement of hydrologic ensemble predictions', European Meteorological Society (EMS) 2019, 9-13 September, Copenhagen, Denmark

CH108 Pechlivanidis I., Gupta H., Bosshard T., 2019, 'What is the optimum ensemble range of hydro-climatic simulations for impact modeling studies?', International Conference, in CEST 2019: Hydrology and Water Resources, 4-7 September, Rhodes, Greece

CH109 Romas E., Ziogas A., Pechlivanidis I., Tzimas A., 2019, 'Climate change impact on river assimilative capacity: a case study application of water related climatic indicators', International Conference, in CEST 2019: Hydrology and Water Resources, 4-7 September, Rhodes, Greece

CH110 Kandris K., Romas E., Tzimas A., Pechlivanidis I., Giardino C., Bresciani M., Schenk K., Bernert H., 2019, 'A computationally efficient metamodeling-based approach for the automatic calibration of coupled hydrodynamic and water quality models', International Conference, in CEST 2019: Hydrology and Water Resources, 4-7 September, Rhodes, Greece

CH111 Crochemore L., Arnal L., Andersson H., Cantone C., Eggen B., Gallo F., Gyllensvärd F., Liggins F., Pechlivanidis I., Photiadou C., 2019, 'Experiences on Role-playing Games for Education in Hydrological Forecasting', International Conference, presented on the IUGG/IAHS 2019 General Assembly, 8-18 July, Montreal, Canada

CH112 Crochemore L., Bosshard T., Pechlivanidis I., 2019, 'Complementarity in Skill between Sub-seasonal and Seasonal Forecast Products Over Europe', International Conference, presented on the IUGG/IAHS 2019 General Assembly, 8-18 July, Montreal, Canada

CH113 Macian-Sorribes H., Pechlivanidis I., Crochemore L., Pulido-Velazquez M., 2019, 'Estimating the economic added-value of improved seasonal forecasts for the Jucar river basin (Eastern Spain)' International Conference, presented on the 4th European Climate Change Adaptation conference (ECCA 2019), 28-31 May, Lisbon, Portugal

CH114 Wörman A., Riml J., Uvo C.B., Pechlivanidis I., 2019, 'Analyzing spatiotemporal covariance and climatic driven fluctuations in runoff to assess regulatory needs in hydropower production' International Conference, presented on the European Geosciences Union (EGU) General Assembly, 8-12 April, Vienna, Austria

CH115 Prodhomme C., Wetterhall F., Ramos M-H., Wood A., Wang Q.J., Verkade J., Pechlivanidis I., Boucher M-A., 2019, 'Future of HEPEX: bridging the gap between researchers and practitioners to advance hydrologic ensemble predictions' International Conference, presented on the European Geosciences Union (EGU) General Assembly, 8-12 April, Vienna, Austria

CH116 Macian-Sorribes H., Marcos-Garcia P., Pechlivanidis I., Pulido-Velazquez M., Crochemore L., 2019, 'Estimating the economic value of forecasting systems using hydroeconomic stochastic programming in the Jucar River system (Spain)' International Conference, presented on the European Geosciences Union (EGU) General Assembly, 8-12 April, Vienna, Austria

CH117 Crochemore L., Cantone C., Photiadou C., Pechlivanidis I., 2019, 'A serious game on the role of forecast uncertainty and reliability in risk-based decision-making' International Conference, presented on the European Geosciences Union (EGU) General Assembly, 8-12 April, Vienna, Austria

CH118 Pechlivanidis I., Gupta H., Bosshard T., 2019, 'How to identify a representative subset of hydro-climatic simulations for impact modeling studies?' International Conference, presented on the European Geosciences Union (EGU) General Assembly, 8-12 April, Vienna, Austria

CH119 Ramos M-H., Castelletti A., Pulido-Velazquez M., Gustafsson D., Giuliani M., Macian-Sorribes H., Cassagnole M., Crochemore L., Pechlivanidis I., Thirel G., 2019, 'Policy brief: making climate services impactful on hydropower reservoir optimization' International Conference, presented on the European Geosciences Union (EGU) General Assembly, 8-12 April, Vienna, Austria

CH120 Romas E., Kandris K., Tzimas A., Pechlivanidis I., Giardino C., Bresciani M., Schenk K., Bernert H., 2019, 'Enhancing model-based predictions of chlorophyll-a, turbidity and temperature in surface water reservoirs through the assimilation of earth-observation-driven water quality parameters' International Conference, presented on the European Geosciences Union (EGU) General Assembly, 8-12 April, Vienna, Austria

CH121 Girons M., Crochemore L., Pechlivanidis I., 2019, 'Evaluation of the potential of an operational hydrological model for providing seasonal forecasts in Sweden' International Conference, presented on the European Geosciences Union (EGU) General Assembly, 8-12 April, Vienna, Austria

CH122 Magnusson L., Pechlivanidis I., Knight J., de Moel H., Weerts A., van den Hurk B., Arnal L., Hunink J., 2019, 'Imprex risk outlook tool – demonstration of use of (semi-)operational products' International Conference, presented on the European Geosciences Union (EGU) General Assembly, 8-12 April, Vienna, Austria

CH123 Photiadou C., Gyllensvärd F., Pechlivanidis I., Crochemore L., Bosshard T., Arheimer B., Buontempo C., 2019, 'Global seasonal hydrological forecasts – a Copernicus Climate Service (C3S) experience' International Conference, presented on the European Geosciences Union (EGU) General Assembly, 8-12 April, Vienna, Austria

2018

CH124 Wood A., Ramos M-H., Wetterhall F., Wang QJ, Pechlivanidis I.G., Verkade J., Pappenberger F., Thielen J., 2018, 'HEPEX's 15 years of successful collaboration to advance ensemble streamflow forecasting for risk-based decision-making in water management' International Conference, presented on the American Geosciences Union (AGU) General Assembly, 10-14 December, Washington D.C., USA

CH125 Pimentel R., Gustafsson D., Giardino C., Bresciani M., Romas E., Tzimas A., Schenk K., Pechlivanidis I.G., 2018, *'Earth Observations as key elements in the development of water information systems and decision support tools'*, Singapore International Water Week, 8-12 July, Singapore

CH126 Pechlivanidis I.G., Gupta H., Bosshard T., 2018, 'How to identify a representative subset of hydro-climatic simulations for impact modeling studies? An information theory approach', 2nd workshop on Information Theory and the Earth Sciences, 16-19 May, Santander, Spain

CH127 Crochemore L. et al., 2018, *'Understanding and evaluating catchment memory from a global hydrological model'*, International Conference, presented on the European Geosciences Union General Assembly, 8-13 April, Vienna, Austria

CH128 Crochemore L. et al., 2018, *'On the added-value of high resolution meteorological forcings for continental scale impact modelling'*, International Conference, presented on the European Geosciences Union General Assembly, 8-13 April, Vienna, Austria

CH129 Macian-Sorribes H. et al., 2018, *'A fuzzy post-processing approach for applying pan-European hydrological forecasts to a Mediterranean river basin management'*, International Conference, presented on the European Geosciences Union General Assembly, 8-13 April, Vienna, Austria

CH130 Pimentel R. et al., 2018, *'Correction of high elevation precipitation at global scale for hydrological modelling'*, International Conference, presented on the European Geosciences Union General Assembly, 8-13 April, Vienna, Austria

CH131 Pimentel R. et al., 2018, *'The added value of combining Earth Observation in a data assimilation scheme to develop water information systems'*, International Conference, presented on the European Geosciences Union General Assembly, 8-13 April, Vienna, Austria

CH132 Crochemore L., Pechlivanidis I.G., 2018, *'Regionalizing sensitivity of long-term forecasts over Europe'*, International Conference, presented on the European Geosciences Union General Assembly, 8-13 April, Vienna, Austria

CH133 Ramos M-H. et al., 2018, *'The history of HEPEX – a community of practice in hydrologic prediction'*, International Conference, presented on the European Geosciences Union General Assembly, 8-13 April, Vienna, Austria

CH134 Wanders N. et al., 2018, *'High-resolution hydrological seasonal forecasting for water resources management over Europe'*, International Conference, presented on the European Geosciences Union General Assembly, 8-13 April, Vienna, Austria

CH135 Giuliani M. et al., 2018, *'From seasonal forecast skill to end-user economic benefit: the case of the Lake Como'*, International Conference, presented on the European Geosciences Union General Assembly, 8-13 April, Vienna, Austria

CH136 Nijzink R. et al., 2018, *'Constraining conceptual hydrological models with multiple information sources'*, International Conference, presented on the European Geosciences Union General Assembly, 8-13 April, Vienna, Austria

CH137 Pechlivanidis I.G. et al., 2018, *'Pan-European seasonal forecasting services: Limitations and need for knowledge purveyors'*, International Conference, presented on the European Geosciences Union General Assembly, 8-13 April, Vienna, Austria

CH138 Olsson J. et al., 2018, *'Dealing with rainfall location uncertainty in flood forecasting: a distance-dependent depth-duration approach'*, International Conference, presented on the European Geosciences Union General Assembly, 8-13 April, Vienna, Austria

CH139 Pechlivanidis I.G, 2018, *'Continental and global hydro-climatic forecasting services: challenges and information extraction to meet the user needs'*, *Howard Wheater Symposium - Hydrology 2058: learning from the past, shaping the future*, 6-8 March, Saskatoon, Canada

CH140 Crochemore L., Lindskog M., Landelius T., Pechlivanidis I.G., 2018, *'How much can continental hydrological forecasting services be benefited from high-resolution NWP systems?'*, International HEPEX workshop on *Breaking the Barriers*, 6-8 February, Melbourne, Australia

CH141 Pechlivanidis I.G., Crochemore L., Gyllensvärd F., Bosshard T., Berg P., Arheimer B., 2018, *'An operational pan-European seasonal hydro-climatic forecasting service'*, International HEPEX workshop on *Breaking the Barriers*, 6-8 February, Melbourne, Australia

CH142 Crochemore L., Pechlivanidis I.G., 2018, *'Skill sensitivity in Europe and site-specific diagnostics based on catchment characteristics'*, International HEPEX workshop on *Breaking the Barriers*, 6-8 February, Melbourne, Australia

2017

CH143 Pechlivanidis I.G., Crochemore L., Photiadou C., Gyllensvärd F., Arheimer B., 2017, *'An operational pan-European seasonal hydro-climatic forecasting service'*, International workshop on *Seasonal forecasting: Meeting User Needs*, 24-25 January, Loughborough, UK

CH144 Pechlivanidis I.G., Crochemore L., Bosshard T., 2017, *'Seasonal hydrological forecasting in Europe: Analysis of skill and its key driving factors'*, International Conference, in CEST 2017: Hydrology and Water Resources, 31 Aug. - 2 Sept., Rhodes, Greece

CH145 Pechlivanidis I.G., Hoshin H., Bosshard T., 2017, *'What is the optimum ensemble range of hydro-climatic simulations for impact modeling studies?'*, International Conference, in CEST 2017: Hydrology and Water Resources, 31 Aug. - 2 Sept., Rhodes, Greece

CH146 Tzimas A., Romas E., Pechlivanidis I.G., Pimentel R., Schenk K., Boultadakis G., Giardino C., Bresciani M., Cross K., Jenkins S., Latorre C., 2017, *'Space assisted water quality forecasting platform for optimized decision making in water supply services'*, International Conference, in CEST 2017: Hydrology and Water Resources, 31 Aug. - 2 Sept., Rhodes, Greece

CH147 Nijzink R., Almeida S., Pechlivanidis I.G., Capell R., Gustafsson D., Arheimer B., Freer J., Han D., Wagener T., Parajka J., Savenije H.H.G., Hrachowitz M., 2017, *'The added value of remote sensing products in constraining hydrological models'*, International Conference, presented on the IAHS 2017 Scientific Assembly, 10-14 July, Port Elizabeth, South Africa

CH148 Nijzink R., Hutton C., Pechlivanidis I.G., Capell R., Arheimer B., Freer J., Han D., Wagener T., McGuire K., Savenije H.H.G., Hrachowitz M., 2017, *'The evolution of root zone moisture storage capacities after deforestation: a step towards hydrological predictions under change?'*, International Conference, presented on the IAHS 2017 Scientific Assembly, 10-14 July, Port Elizabeth, South Africa

CH149 Pechlivanidis I.G., Gupta H., Bosshard T., 2017, *'Can we really identify a representative subset of hydro-climatic simulations for impact modeling studies?'*, International Conference, presented on the European Geosciences Union General Assembly, 23-28 April, Vienna, Austria

CH150 Pechlivanidis I.G., Crochemore L., 2017, *'What is the relative role of initial hydrological conditions and meteorological forcing to the seasonal hydrological forecasting skill? Analysis along Europe's hydro-climatic gradient'*, International Conference, presented on the European Geosciences Union General Assembly, 23-28 April, Vienna, Austria

CH151 Pechlivanidis I.G., McIntyre N., Wheater H.S., 2017, *'The significance of spatial variability of rainfall on streamflow: A synthetic analysis at the Upper Lee catchment, UK'*, International Conference, presented on the European Geosciences Union General Assembly, 23-28 April, Vienna, Austria

CH152 Arheimer B., Andersson J., Crochemore L., Donnelly C., Gustafsson D., Hasan A., Isberg K., Pechlivanidis I.G., 2017, *'Global, continental and regional water balance estimates from HYPE catchment modelling'*, International Conference, presented on the European Geosciences Union General Assembly, 23-28 April, Vienna, Austria

CH153 Almeida S., Nijzink R., Pechlivanidis I.G., Capell R., Gustafsson D., Wagener T., Freer J., Parajka J., Hrachowitz M., Arheimer B., Savenije H.H.G., Han D., 2017, *'The impact of prior parameter ranges on model behaviour using Global Sensitivity Analysis'*, International Conference, presented on the European Geosciences Union General Assembly, 23-28 April, Vienna, Austria

CH154 Nijzink R., Hutton C., Pechlivanidis I.G., Capell R., Arheimer B., Freer J., Han D., Wagener T., McGuire K., Savenije H.H.G., Hrachowitz M., 2017, *'The evolution of root zone moisture storage capacities after deforestation: a step towards hydrological predictions under change?'*, International Conference, presented on the European Geosciences Union General Assembly, 23-28 April, Vienna, Austria

CH155 Nijzink R., Almeida S., Pechlivanidis I.G., Capell R., Gustafsson D., Arheimer B., Freer J., Han D., Wagener T., Sleziak P., Parajka J., Savenije H.H.G., Hrachowitz M., 2017, *'The added value of remote sensing products in constraining hydrological models'*, International Conference, presented on the European Geosciences Union General Assembly, 23-28 April, Vienna, Austria

2016

CH156 Pechlivanidis I.G., Gupta H.V., Bosshard T., 2016, *'Identification of representative hydroclimatic projections based on the MIMR concept'*, Workshop on "Information Theory and The Earth Sciences", 25-27 April, Zugspitze, Germany

CH157 Pechlivanidis I.G., Bosshard T., Rosberg J., 2016, *'Analysis of the seasonal hydrological forecasting skill over Europe: Which are the control drivers?'*, International Conference on Climate Science and Climate Services, 5-7 October, Exeter, UK

CH158 Pechlivanidis I.G., Spangmyr H., Bosshard T., 2016, *'Identification of the drivers controlling the seasonal hydrological forecasting skill in Europe'*, International Conference, presented on the European Geosciences Union General Assembly, 17-22 April, Vienna, Austria

CH159 Donnelly C., Andersson J., Arheimer B., Berg P., Bosshard T., Hundecha Y., Olsson J., Pechlivanidis I.G., Yang W., 2016, *'Lessons learnt from top-down large-scale and bottom-up small scale*

impact studies', International Conference, presented on the European Geosciences Union General Assembly, 17-22 April, Vienna, Austria

CH160 Samaniego L., Kumar R., Pechlivanidis I.G., Breuer L, Wortmann M., Vetter T., Flörke M., Chamorro A., Schäfer D., Shah H., Zeng X., 2016, *'Disentangling the uncertainty of hydrological drought characteristics in a multi-model century-long experiment in continental river basins'*, International Conference, presented on the European Geosciences Union General Assembly, 17-22 April, Vienna, Austria

CH161 Guse B., Pechlivanidis I.G., Pfannerstill M., Donnelly C., Arheimer B., Fohrer N., 2016, *'Same catchment, different models, same dominant processes? – How temporal patterns of dominant parameters vary between two hydrological models'*, International Conference, presented on the European Geosciences Union General Assembly, 17-22 April, Vienna, Austria

CH162 Donnelly C., Wetterhall F., Hundecha Y., Spångmyr H., Pechlivanidis I.G., 2016, *'Two models are better than one – Operational multi-model hydrological forecasting over the European continent'*, International Conference, presented on the European Geosciences Union General Assembly, 17-22 April, Vienna, Austria

CH163 Strömbäck L., Arheimer B., Andersson J., Donnelly C., Gustafsson D., Isberg K., Pechlivanidis I.G., Strömqvist J., 2016, *'Open hydrological data on hypeweb.smhi.se'*, International Conference, presented on the European Geosciences Union General Assembly, 17-22 April, Vienna, Austria

CH164 Hutton C., Nijzink R., Pechlivanidis I.G., Capell R., Wagener T., Freer J., Han D., Hrachowitz M., Arheimer B., 2016, *'Catchment prediction in changing environments (CAPICHE): A model inter-comparison experiment'*, International Conference, presented on the European Geosciences Union General Assembly, 17-22 April, Vienna, Austria

CH165 Nijzink R., Hutton C., Pechlivanidis I.G., Capell R., Arheimer B., Wagener T., Savenije H.H.G., Hrachowitz M., 2016, *'The evolution of root zones storage capacity after land use change'*, International Conference, presented on the European Geosciences Union General Assembly, 17-22 April, Vienna, Austria

CH166 Pechlivanidis I.G., Arheimer B., 2016, *'Analysis of spatial flow patterns across the Indian subcontinent via multi-basin hydrological modelling'*, International Conference, presented on the European Geosciences Union General Assembly, 17-22 April, Vienna, Austria

2015

CH167 Nijzink R., Hutton C., Capell R., Pechlivanidis I.G., Hrachowitz M., Savenije H., 2015, *'Evolution of root zone storage after land use change'*, AGU 2015, 14-18 December, San Francisco, USA

CH168 Samaniego L., Kumar R., Schaefer D., Huang S., Yang T., Mishra V., Eisner S., Vetter T., Pechlivanidis I.G., Liersch S., Flörke M., Krysanova V., 2015, *'Propagation of model and forcing uncertainty into hydrological drought characteristics in a multi-model century-long experiment in continental river basins'*, AGU 2015, 14-18 December, San Francisco, USA

CH169 Pechlivanidis I.G., Spangmyr H., Bosshard T., Olsson J., 2015, *'Ensemble seasonal hydrological forecasting in Europe: ECMWF vs. Climatology'*, International HEPEX workshop on Seasonal Hydrological Forecasting, 21-23 September, Norrköping, Sweden

CH170 Pechlivanidis I.G., Olsson J., Arheimer B., 2015, *'Analysis of meteorological and hydrological extremes in the Indian subcontinent under present and future conditions'*, International Conference, in CEST 2015: Catchment Hydrology, 3-5 September, Rhodes, Greece

CH171 Pechlivanidis G.I., Keramaris E., Yannopoulos P., Pechlivanidis I.G., 2015, *'Experimental study of a turbulent buoyant jet in a quiescent or flowing ambient fluid'*, in CEST 2015: Water Resources and Hydraulics, 3-5 September, Rhodes, Greece

CH172 Pechlivanidis I.G., Hundecha Y., Donnelly C., Arheimer B., 2015, *'Analysis of hydrological extremes along a hydro-climatic gradient under present and future conditions'*, International Conference, presented on the 26th IUGG General Assembly, 22 June-2 July, Prague, Czech Republic

CH173 Pechlivanidis I.G., Donnelly C., Arheimer B., 2015, *'E-HYPE: How variations in continental scale precipitation affect pan-European forecasts for flood warning, seasonal anomalies and inflows to seas'*, International Conference, presented on the 26th IUGG General Assembly, 22 June-2 July, Prague, Czech Republic

CH174 Pechlivanidis I.G., Spangmyr H., Bosshard T., Gustafsson D., Olsson J., 2015, *'Ensemble seasonal hydrological forecasting at the pan-European scale'*, International Conference, presented on the European Geosciences Union General Assembly, 12-17 April, Vienna, Austria

CH175 Donnelly C., Andersson J., Arheimer B., Gustafsson D., Hundecha Y., Pechlivanidis I.G., 2015, *'Spatiotemporal model evaluation across Europe: A methodology based on expert knowledge, multiple datasets, physiography, flow signatures and performance metrics'*, International Conference, presented on the European Geosciences Union General Assembly, 12-17 April, Vienna, Austria

CH176 *Strömbäck L.*, Andersson J., Donnelly C., Gustafsson D., Isberg K., Pechlivanidis I.G., Strömqvist J., Arheimer B., 2015, *'Providing open hydrological data for decision making and research – hypeweb.smhi.se'*, Poster, presented on the European Geosciences Union General Assembly, 12-17 April, Vienna, Austria

CH177 *Strömbäck L.*, Andersson J., Donnelly C., Gustafsson D., Isberg K., Pechlivanidis I.G., Strömqvist J., Arheimer B., 2015, *'Repurposing of open data through large scale hydrological modelling – hypeweb.smhi.se'*, International Conference, presented on the European Geosciences Union General Assembly, 12-17 April, Vienna, Austria

CH178 Pechlivanidis I.G., Olsson J., Bosshard T., Sharma D., Sharma K.C., Arheimer B., 2015, *'The impact of climate change on water resources: Assessment at the scale of the Indian subcontinent'*, Poster, presented on the European Geosciences Union General Assembly, 12-17 April, Vienna, Austria

2014

CH179 Pechlivanidis I.G., Bosshard T., Spangmyr H., Lindström G., Olsson J., Arheimer B., 2014, *'Evaluating the performance in the Swedish operational hydrological forecasting systems'*, International Conference, presented on the European Geosciences Union General Assembly, 27 April - 02 May, Vienna, Austria

CH180 Pechlivanidis I.G., Gustafsson D., Arheimer B., 2014, *'Identification of the HYPE hydrological model over the Indian subcontinent'*, International Conference, presented on the European Geosciences Union General Assembly, 27 April - 02 May, Vienna, Austria

CH181 Keramaris E., Pechlivanidis G.I., Pechlivanidis I.G., 2014, *'Effects of a half-separated (impermeable and permeable) bed on the velocity distribution in open channels'*, International Conference, presented on the 12th International Conference on the Protection and Restoration of the Environment (PRE XII), 29 June - 4 July, Skiathos, Greece

2013

CH182 Pechlivanidis I.G., Olsson J., Arheimer B., Bosshard T., Gustafsson D., 2013, *'Assessment of the climate change impacts on the water resources of the Indian subcontinent'*, in International Conference on Climate Change Impacts and Societal Adaptation (CCISA2013), 6-8 November, Kishangarh, India

CH183 Bosshard T., Olsson J., Foster K., Pechlivanidis I.G., 2013, *'Analysis and bias-correction of three CORDEX-SA projections'*, in International Conference on Climate Change Impacts and Societal Adaptation (CCISA2013), 6-8 November, Kishangarh, India

CH184 Bosshard T., Foster K., Pechlivanidis I.G., Olsson J., 2013, *'Bias-correction of regional CORDEX projections over the Indian sub-continent'*, in International Conference on Regional Climate, CORDEX2013, 4-7 November, Brussels, Belgium

CH185 Pechlivanidis I.G., Anastasiadis S., Lekkas D.F., 2013, *'Development of a semi-distributed rainfall-runoff model to predict runoff response in the ungauged catchment of Mornos, Greece'*, in CEST 2013: Catchment Hydrology, 5-7 September, Athens, Greece

CH186 Keramaris E., Pechlivanidis G.I., Pechlivanidis I.G., Samaras G.A., 2013, *'The impact of lateral walls on the velocity profile in an open channel using the PIV method'*, in CEST 2013: Water Resources and Hydraulics, 5-7 September, Athens, Greece

CH187 Andersson J.C.M., Pechlivanidis I.G., Gustafsson D., Donnelly C., Arheimer B., 2013, *'Key factors for improving large scale hydrological model performance'*, in CEST 2013: Catchment Hydrology, 5-7 September, Athens, Greece

CH188 Gustafsson, D., Isberg, K., Dahne, J., Pechlivanidis, I.G., Rosberg, J., Stromqvist, J., 2013, *'Adaption of a high resolution semi-distributed hydrological model for simulation of the Arctic Ocean drainage basin using remote sensing snow and ice data'*, in IAHS: Knowledge for the Future, 22-26 July, Gothenburg, Sweden

CH189 Donnelly C., Arheimer B., Bosshard T., Pechlivanidis I.G., 2013, *'Uncertainties beyond ensembles and parameters – Experiences of impact assessments using the HYPE model at various scales'*, in IMPACTS WORLD 2013, 27-30 May, Potsdam, Germany

2012

CH190 Pechlivanidis G.I., Keramaris E., Pechlivanidis I.G., 2012, *'Influence of turbulent characteristics of the flow in permeable and impermeable beds'*, National Conference, presented on the 12th National Conference of the Hellenic Hydro-technical Association, October, Patra, Greece

CH191 Pechlivanidis G.I., Keramaris E., Pechlivanidis I.G., Samaras G.A., 2012, *'Measuring the vorticity above vegetated beds using a Particle Image Velocimetry technique'*, International Conference, presented on the 11th International Conference on the Protection and Restoration of the Environment (PRE XI), 3-5 July, Thessaloniki, Greece

2011

CH192 Pechlivanidis I.G., Jackson B., McMillan H., Gupta H., 2011, *'Use of informational entropy-based metrics to drive model parameter identification'*, in CEST 2011: Hydrological modelling and uncertainty analysis, 8-10 September, Rhodes, Greece

CH193 Pechlivanidis I.G., Jackson B., McMillan H., Gupta H., 2011, *'Using entropy as a diagnostic of flow duration for rainfall-runoff model calibration'*, in IUGG 2011: Expert judgement versus statistical goodness-of-fit for hydrological model evaluation, 28 June-7 July, Melbourne, Australia

2010

CH194 Pechlivanidis I.G., Jackson B., McMillan H., 2010, *'The use of entropy as a model diagnostic in rainfall-runoff modelling'*, in iEMSs 2010: International Congress on Environmental Modelling and Software, Vol. 2, pp. 1780-1787, 5-8 July, Ottawa, Canada

2009

CH195 Pechlivanidis I.G., McIntyre N., Wheater H.S., 2009, *'Balancing the complexity of the model and available information for a successful semi-distributed model identification'*, International Conference, presented on the NZHS and NZFSS Joint Conference 2009: Waters for the Future: Balancing its values, Northland, New Zealand

CH196 Pechlivanidis G.I., Pechlivanidis I.G., Samaras G.A., Dermisis V., 2009, *'Experimental evaluation of the entrainment in stratified flows'*, National Conference, presented on the 11th National Conference of Hellenic Hydro-technical Association, 27-30 May, Volos, Greece

2008

CH197 Pechlivanidis I.G., McIntyre N., Wheater H.S., Jackson B.M., Orellana, B., 2008, *'Relation of spatial rainfall characteristics to runoff: An analysis of observed data'*, International Conference, presented on the BHS 2008: Sustainable Hydrology for the 21st Century, Proc. 10th BHS National Hydrology Symposium, pp. 86–94, Exeter, UK

CH198 Pechlivanidis G.I., Pechlivanidis I.G., Samaras G.A., Tasoula E., Dermisis V., 2008, *'Control of the saline wedge intrusion by using broad-crested orthogonal weir'*, International Conference, presented on the 1st International Conference on Fluvial Hydraulics (River Flow 2008), 3-5 September, Cesme-Izmir, Turkey

CH199 Pechlivanidis I.G., McIntyre N., Wheater H.S., 2008, *'The significance of spatial variability of rainfall on runoff'*, in iEMSs 2008: International Congress on Environmental Modelling and Software, Vol. 1, pp. 478-485, 7-10 July, Barcelona, Spain

CH200 Orellana B., Pechlivanidis I.G., Wheater H.S., McIntyre N., Wagener T., 2008, *'A toolbox for the identification of parsimonious semi-distributed rainfall-runoff models: Application to the Upper Lee catchment'*, in iEMSs 2008: International Congress on Environmental Modelling and Software, Vol. 1, pp. 670-677, 7-10 July, Barcelona, Spain

CH201 Pechlivanidis I.G., McIntyre N., Wheater H.S., Moore R.J., 2008, *'Intercomparison of lumped versus distributed hydrological model on the Upper Lee catchment'*, International Conference, presented on the European Geosciences Union General Assembly, 13-18 April, Vienna, Austria

2007

CH202 Pechlivanidis I.G., McIntyre N., Wheater H.S. 2007, *'Relating conceptual rainfall-runoff model structure and parameters to catchment characteristics: A case study on the Upper Lee catchment'*, Research poster meeting, presented on the HYDRA Postgraduate Research Poster Meeting, 17 December, University College London, London, UK

CH203 Pechlivanidis I.G., Segond M-L, McIntyre N., Wheater H.S., 2007, *'Comparison of spatial deterministic and stochastic models for infilling missing precipitation records'*, International Conference, presented on the 1st International Conference on Environmental Management, *Engineering*, Planning and Economics (CEMEPE), pp. 925-931, 24-28 June, Skiathos, Greece

2006

CH204 Pechlivanidis G.I., Pechlivanidis I.G., Samaras G.A., Dermisis V., 2006, *'A simultaneous calibration of multiple sensors of anemometers in a laboratory channel or closed conduit'*, National Conference, presented on the 10th National Conference of Hellenic Hydro-technical Association, Xanthi, Greece

CH205 Pechlivanidis G.I., Samaras G.A., Tasoula E., Pechlivanidis I.G., 2006, *'Depletion of saline wedge length through low-lying broad-crested orthogonal weir'*, National Conference, presented on the 10th National Conference of Hellenic Hydro-technical Association, Xanthi, Greece

2005

CH206 Pechlivanidis G.I., Dermisis V., Pechlivanidis I.G., 2005, *'The control of salt water intrusion in estuaries of rivers and canals'*, National Conference, presented on the 5th Congress of Greek Water Resource Treatment, Xanthi, Greece

REPORTS (SELECTED)

- Kalas, M., Ommer, J., Mohammadi, B., Pechlivanidis, I., Yang, W., Soret, A., Otero Felipe, N., Xoplaki, E., Darrab, S., Díaz Esteban, Y., Squintu, A., Atencia, A., Marcos, R., **2026**, Application programming interface (API) to deliver multihazard forecasts and impact assessment services (MedEWSa D3.3; *Grant agreement 101121192*)
- Coumou, D., Castelletti, A., Scoccimarro, E., Camps-Valls, G., Runge, J., Popescu, O.-I., Giuliani, M., Pechlivanidis, I., Van Andel, S. J., Hempelmann, N., Yiou, P., **2025**, Policy Brief: Opportunities and risks of AI-applications in climate science (XAIDA and CLINT; *Grant agreements 101003469 and 101003876*)
- Kalas, M., Ommer, J., Mohammadi, B., Pechlivanidis, I., Yang, W., Soret, A., Otero Felipe, N., Xoplaki, E., Darrab, S., Díaz Esteban, Y., Squintu, A., Atencia, A., Marcos, R., **2025**, Application programming interface (API) to deliver multihazard forecasts and impact assessment services (MedEWSa D3.2; *Grant agreement 101121192*)
- Vlachopoulos, O., Xoplaki, E., Luther, N., Pechlivanidis, I., Du, Y., Kavvadias, K., Riepin, K., **2025**, AI-enhanced Climate Services for extreme impacts (CLINT; *Grant agreement 101003876*)
- World Meteorological Organization (WMO). *State of the Global Water Resources 2023* (WMO No. 1362). Geneva, **2024**.
- Soret, A., et al., **2024**, *MedEWSa (Grant agreement 101121192), Deliverable 3.1, Report on 'Assessment of existing technologies and EWSs'*, October, Barcelona, Spain
- Pesquer L., Pechlivanidis I., et al., **2024**, *I-CISK (Grant agreement 101037293), Deliverable 3.3, Report on 'Benchmarking tailored climate services for local applications using local knowledge and data'*, October, Madrid, Spain
- Pechlivanidis I., Du Y., Clemenzi I., **2024**, *I-CISK (Grant agreement 101037293), Deliverable 3.2, Report on 'Skill assessment and comparison of state-of-the-art methods for forecasts and projections of extremes'*, April, Norrköping, Sweden
- Kavvadias, K., Govorukha, K., Kourtza, E., Pechlivanidis, I., Du, Y., Cemenzi, I., Vlachopoulos, O., Xoplaki, E., Luther, N., **2024**, *CLINT (Grant agreement 101003876), Deliverable 6.2, Report on 'Preliminary report on AI-enhanced Climate Services for Extreme Impacts'*, May, Athens, Greece
- van den Homberg et al., **2023**, *I-CISK (Grant agreement 101037293), Deliverable 2.2, Report on 'Concepts and methods to characterise and integrate local and scientific knowledge'*, March, the Hague, the Netherlands
- World Meteorological Organization (WMO). *State of the Global Water Resources 2022* (WMO No. 1333). Geneva, **2023.**
- Pesquer, L., Pechlivanidis I.G., et al., **2022**, *I-CISK (Grant agreement 101037293), Deliverable 3.1, Report on 'Preliminary report on the skill assessment and comparison of state-of-the-art methods for forecasts and projections of extremes'*, October, Madrid, Spain
- Pechlivanidis I.G., et al., **2022**, *CLINT (Grant agreement 101003876), Deliverable 6.1, Report on 'EU Climate Services on the impacts of extreme events'*, June, Norrköping, Sweden
- Pechlivanidis I.G., et al., **2022**, *HYPOS (Grant agreement 870504), Deliverable 4.1, Report on 'Use case setup report'*, February, Norrköping, Sweden

- Bartosova A., et al., **2022**, *HYPOS (Grant agreement 870504), Deliverable 3.4, Report on 'Hydrological model algorithm development and improvement'*, February, Norrköping, Sweden
- Pechlivanidis I.G., Musuuza J., **2021**, *PrimeWater (Grant agreement 870497), Deliverable 3.6, Report on 'User-driven focused report on the advances in the forecast skill of hydrological seasonal predictions through data assimilation'*, November, Norrköping, Sweden
- Pechlivanidis I.G., Musuuza J., **2021**, *PrimeWater (Grant agreement 870497), Deliverable 3.5, Report on 'Model developments and benchmarking for prediction of water quality variables'*, February, Norrköping, Sweden
- S2S4E Climate Services for Clean Energy project (Bloomfield H., Brayshaw D., Sillmann J., Hermansen E, Aaheim A., Pechlivanidis I.G., Jimenez I., Soret A., Nicodemou A.), **2020**, *S2S4E (Grant agreement 776787) White Report on 'How subseasonal and seasonal forecasts can help the integration of renewables into Europe's energy sector'*, November, Oslo, Norway
- Pechlivanidis I.G., Crochemore L., Soret A., Lledo L., Manrique-Sunen A., Brayshaw D., Gonzlez P., Perez A.C., Bloomfield H., Catalano F., Cionnni I., Loukos H., Noel T., **2020**, *S2S4E (Grant agreement 776787) Deliverable 4.4, Report on 'Skill assessment and comparison of methods for sub-seasonal and seasonal forecast systems for the energy sector' selected case studies'*, February, Norrköping, Sweden
- Weert A., Silvestro F., Magnusson L., Klein B., Pechlivanidis I.G., **2019**, *IMPREX (Grant agreement 641811) Deliverable 4.3, Report on 'End-user-focused report on the advances in the forecast skill of hydrological extremes through data assimilation, seamless predictions and multi-modelling*', July, Delft, the Netherlands
- Knight J., Magnusson L., Klein B., Arnal L., Pechlivanidis I.G., **2019**, *IMPREX (Grant agreement 641811) Deliverable 14.5, Report on 'Development and delivery of a hydro-meteorological monthly to seasonal risk outlook tool for the European continent*', July, Exeter, United Kingdom
- Berg P., Photiadou C., Pechlivanidis I.G., **2019**, Copernicus C3S Operational *Water-SIS (Contract number 2018/C3S_424_SMHI/SC1) Milestone 2.1, Report on 'Routines for pre- and post-processing CIIs and seasonal forecast'*, April, Norrköping, Sweden
- Pechlivanidis I.G., Capell R., Musuuza J., Berg P., Fahleson T., Arheimer B., Borg M., **2019**, Copernicus C3S Operational *Water-SIS (Contract number 2018/C3S_424_SMHI/SC1) Deliverable 2.3, Report on 'Multi-model ensemble of water relevant variables in seasonal forecasts in the EC Flow'*, January, Norrköping, Sweden
- Pechlivanidis I.G., Crochemore L., Soret A., Lledo L., Manrique-Sunen A., Brayshaw D., Gonzlez P., Perez A.C., Bloomfield H., Catalano F., Cionnni I., **2018**, *S2S4E (Grant agreement 776787) Deliverable 4.1, Report on 'Benchmarking skill assessment of current sub-seasonal and seasonal forecast systems for users' selected case studies'*, December, Norrköping, Sweden
- Vigo I., Badal M., Jimenez I., Soret A., Kielmanowicz D., Salel M., Aaheim H.A., Hermansen A., Sillmann J., Photiadou C., Pechlivanidis I.G., Hernandez K., **2018**, *S2S4E (Grant agreement 776787) Deliverable 2.1, Report on 'User needs and decision-making processes that can benefit from S2S forecasts'*, December, Barcelona, Spain
- Pechlivanidis I.G., Crochemore L., Strömqvist J., Pimentel R., Musuuza J., **2017**, *SPACE-O (Grant agreement 730005) Deliverable 6.3, Report on 'Validation of the hydrological model service'*, August, Norrköping, Sweden
- Pechlivanidis I.G., Romas E., Tzimas A., **2017**, *SPACE-O (Grant agreement 730005) Deliverable 4.1, Report on 'Hydrological forecasting service'*, October, Norrköping, Sweden
- Cross K., Latorre C., Malheiro R., Tsimi C., Bazdanis G., Dessena M., Pechlivanidis I.G., Giardino C., Boultadakis G., Schenk K., **2017**, *SPACE-O (Grant agreement 730005) Deliverable 7.1, Report on 'Dissemination and communication plan'*, April, den Hague, the Netherlands
- Boultadakis G., Giannakoulias A., Romas E., Schenk K., Pechlivanidis I.G., Giardino C., **2017**, *SPACE-O (Grant agreement 730005) Deliverable 2.3, Report on 'Functional design'*, April, Brussels, Belgium
- Arnal L., Cloke H., Magnusson L., Klein B., Meissner D., de Tomas A., Hunink J., Pechlivanidis I.G., Crochemore L., Suarez S., Solera A., Knight J., Liggins F., Weerts A., Ramos M-H., Thirel G., **2017**, *IMPREX (Grant agreement 641811) Deliverable 4.2, Report on 'The sensitivity of sub-seasonal to seasonal streamflow forecasts to meteorological forcing quality, modelled hydrology and the initial hydrological conditions*', March, Reading, UK

- Romas E., Bazdanis G., Dessena M., Pechlivanidis I.G., Giardino C., **2016**, *SPACE-O (Grant agreement 730005) Deliverable 2.1, Report on 'Case study workflow design'*, December, Athens, Greece
- Ramos M-H., Norville J., Thirel G., Pappenberger F., Pechlivanidis I.G., **2016**, *IMPREX (Grant agreement 641811) Deliverable 4.1, Report on 'Verification score card'*, October, Paris, France
- Hutjes, R., Jimenez, I., Davis, M., Pechlivanidis, I.G., Williams, K., Fallon, P., Nicklin, K., Challinor, A., Fernandez, J., Gutierrez, J.M., Jönsson, A.M., Cardoso, R.M., Miranda, P., Greuell, W., Ogutu, G., Biemans, H., Supit, I., **2015**, *EUPORIAS (Grant agreement 308291) Deliverable 23.3, Report on 'Quantifying uncertainty in impact models*', October, Wageningen, the Netherlands.
- Fallon, P., Williams, K., Buontempo, C., Newton, P., Hutjes, R., Greuell, W., Supit, I., Nicklin, K., Pechlivanidis, I.G., García-Manzanas, R., Jönsson, A-M., Lowe, R., Pouget, L., Ceron, J-P., Dubus, L., **2014**, *EUPORIAS (Grant agreement 308291) Deliverable 23.3, Report on 'Initialisation of impacts models for seasonal predictions*', July, MetOffice, Exeter, UK.
- Pechlivanidis I.G., Olsson J., Arheimer B., **2013**, *'Assessment of Climate Change Impacts on Water Resources in the Luni River Basin, Rajasthan, India, using the CORDEX results'*, prepared for The Swedish International Development cooperation Agent (SIDA), December, Sweden.
- Ballinger J., Jackson B., Pechlivanidis I.G., Ries W., **2011**, 'Potential flooding and inundation on the Hutt River', prepared for the New Zealand Climate Change Research Institute
- Pechlivanidis I.G., Kigobe M., Clark J., **2008**, 'European Geosciences Union General Assembly', prepared for The Newsletter of the British Hydrological Society, August, No. 98, UK.

WORKSHOP PARTICIPATION (SELECTED)

- *Advancing Multi-Hazard Prediction & From Forecasts to Decisions: WG1–WG2 Expert Workshop*, **2026**, organized by the ANTICIPATE COST Action and University of Lausanne, 27-28 April, Lausanne, Switzerland.
- *Shaping the Future of Hydrological Forecasting: HEPEX 2025 Workshop and Anniversary*, **2025**, workshop organized by the HEPEX (Hydrological Ensemble Prediction Experiment) initiative, 25-27 March, Tuscaloosa, USA.
- *Bridging research and operations in an Earth-system approach – Increasing water and heat resilience in RA VI*, **2025**, 2nd Regional Scientific Forum of RA VI, organized by WMO, 4-6 November, Prague, Czech Republic.
- *Hydrology ML seminar*, **2025**, workshop organized by ECMWF, 24 October, Online.
- *Forecasting across spatial scales and time horizons*, **2023**, workshop organized by the HEPEX (Hydrological Ensemble Prediction Experiment) initiative, 13-15 September, Uppsala, Sweden.
- *Panta Rhei Drought in the Anthropocene*, **2022**, workshop organized by IAHS Panta Rhei and Uppsala University, 29-30 August, Uppsala, Sweden.
- *SMHI's role in the hydropower industry*, **2022**, workshop organized by Nordic Climate and Energy Modelling Forum, 17 June, online
- *Connecting global to local hydrological modelling and forecasting: scientific advances and challenges*, **2021**, organized by ECMWF-CEMS-C3S-HEPEX-GFP, 29 June - 1 July, online
- *End-users consultation workshop – Mulargia reservoir*, **2021**, organized by the PrimeWater project consortium, 6 May, online
- *Hydrology Modeling for Energy Models*, **2020**, organized by Rte and IPSL, 1 July, online
- *H-SAF and HEPEX: Satellite inspired hydrology in an uncertain future*, **2019**, hosted by ECMWF, 25-28 November, Reading, UK
- *HEPEX: Breaking the Barriers*, **2018**, hosted by the University of Melbourne and CSIRO, 6-8 February, Melbourne, Australia
- *Seasonal Forecasting: Meeting User Needs*, **2017**, hosted by the University of Loughborough, 24-25 January, Loughborough, UK
- *Changes in Water Resources and Adaptation options in the Ganges region*, **2017**, hosted by the Indian National Institute of Hydrology, 09-10 March, Roorkee, India
- *International workshop on Hydro-meteorological modelling and forecasting*, **2015**, organized by the Norwegian Hydrological Institute, 9-10 December, Lillehammer, Norway
- *Changes in Water Resources and Adaptation options in the upper Ganges region*, **2015**, organised by the Indian National Institute of Hydrology, 16-17 November, Roorkee, India

- HEPEX workshop on Seasonal Hydrological Forecasting, **2015**, organised by HEPEX and the Swedish Meteorological and Hydrological Institute, 21-23 September, Norrköping, Sweden
- *Adaptation and mitigation options for tackling the impacts of climate change on water resources in the Luni River Basin*, 2013, organised by the Central University of Rajasthan and the Swedish Meteorological and Hydrological Institute, 6 November, Kishangarh, India
- *Expert judgement versus statistical goodness-of-fit for hydrological model evaluation*, **2011**, organised by the International Association of Hydrological Sciences, 3-4 July, Melbourne, Australia
- *Complexity reduction strategies for effective use of process based models in environmental decision making*, **2010**, organised by the International Congress on Environmental Modelling and Software (iEMS), 5-8 July, Ottawa, Canada
- *Managing with Uncertainty*, **2009**, organised by the NZHS and NZFSS Joint Conference 2009: Waters for the Future: Balancing its values, 23-27 November, Northland, New Zealand
- *Evaluating the impact of data and associated uncertainty on hydrological model predictions*, **2008**, organised by the International Congress on Environmental Modelling and Software (iEMS), 7-10 July, Barcelona, Spain
- *Bayesian uncertainty analysis in hydrological modelling*, **2008**, organised by the European Geosciences Union, 10-12 April, Vienna, Austria
- *Workshop on uncertainty in water quality and quantity modelling*, **2007**, organised by the Hydrological Modelling Department from the Helmholtz Centre for Environmental Research-UFZ, 21-22 May, Magdeburg, Germany

VOLUNTEERING WORK, INTERESTS AND HOBBIES

My main hobby is performing the Korean martial art Taekwondo and the self-defence method Phylatto. I am a Master (6th Dan degree) black belt and a senior instructor of the Phylatto method. I have been appointed as the instructor of the SMHI-IF self-defence club since November 2012 (volunteering). I have also acted as the instructor for SMHI's boxing club (2015-2024; volunteering). I am also a Taekwondo instructor at the Yong-Gi TKD sport-centre in Norrköping, Sweden (volunteering). In addition, I had been appointed as the team captain and assistant instructor at Imperial College Union Taekwondo Club (2006-2009) and Victoria University of Wellington Taekwondo Club (2009-2011). Other interests include Aikido, Kung Fu, boxing, football, volleyball, swimming, squash, running, basketball, table tennis, salsa and Greek traditional dancing. Finally, I have been studying traditional Greek Byzantine music between 2006 and 2009.

ATHLETIC ACHIEVEMENTS

- 2011: AMI Round the Bays - 7 km run (363 place out of 2993)
- 2011: North Island Development *Taekwondo* tournament 1st Place
- 2011: New Zealand Open *Taekwondo* tournament 2nd Place
- 2010: North Island Development *Taekwondo* tournament 2nd Place
- 2010: Wellington Region *Taekwondo* Championships 1st Place
- 2007: IDEA League *Taekwondo* Championships 1st Place
- 2006: British Student *Taekwondo* Federation National Student Championships 3rd Place
- 2006: London Capital *Taekwondo* Cup 2nd Place
- 2006: IDEA League *Volleyball* Championships 3rd Place
- 2004: Greek National Student *Taekwondo* Championships 2nd Place
- 1998: Greek National *Taekwondo* Championships 3rd Place
- 1995-1998: Greek National Student *Volleyball* Championships 1st Place