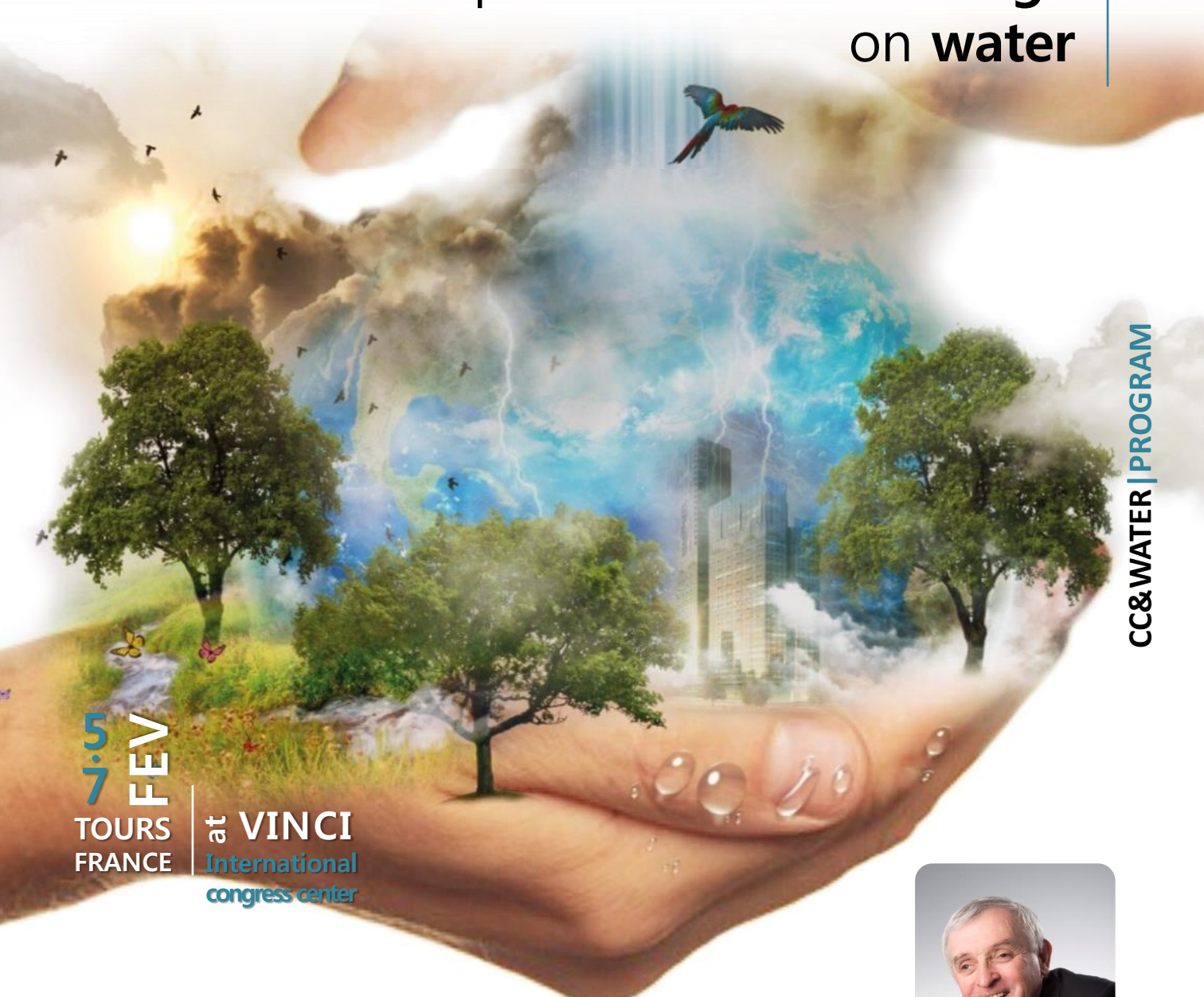




INTERNATIONAL CONFERENCE

# Climate Change and Water 2018

## Diversity of local responses to the impacts of **climate change** on **water**



CC&WATER | PROGRAM

5-7  
FEV  
TOURS  
FRANCE

et VINCI  
International  
congress center

Info

[climatechangeandwater.org](http://climatechangeandwater.org)

Partners



Supports



MiDi



Opening by  
Jean Jouzel

## MONDAY 5

8:30 Welcome and registration

Opening session  
9:00-11h45

Inauguration by Centre-Val de Loire Region

Jean JOUZEL- Météo & Climat (FR)

Eric BRUN - ONERC (FR)  
Water management & territories in the second phase of the French National Adaptation Plan to Climate change

10:30 Coffee Break

Philippe QUEVAUVILLER - EC (FR)

Overview of the conference themes in the climate-water-adaptation nexus  
11:45-12:30

Philippe KER RAULT (NL)  
Sarah FEUILLETTE (FR)  
Ana IGLESIAS (ES)

12:30 Lunch Break

Posters session

Adaptation and water resource management  
14:00-15:30

Julie FABRE (FR)  
Amandine AMAT (FR)  
Aldo PENASSO (FR)  
Benoît ROSSIGNOL (FR)  
Omer CHOQUINARD (CA)  
Eirini SKRIMIZEA (IT)

15:30 Coffee Break

Adaptation in urban areas  
16:00-16:45

Lydia VAMVAKERIDOU-LYROUDIA (UK)  
Thomas THALER (AT)  
Adeline CLIFFORD (FR)

ECRA Session  
Societal challenges related to climate change impacts on the hydrological cycle - risk analysis, vulnerability and adaptation  
17:00-18:30

Welcome: **Peter BRAESICKE**, ECRA chair, Helmholtz Association, KIT  
Keynote 1: **Chantal GASCUEL** - Agrohydrology, INRA, FR  
Keynote 2: **Eric MARTIN** - IRSTEA, FR  
Panel discussion : **Jean JOUZEL** (CEA/CNRS/UVSQ) - **Philippe QUEVAUVILLER** (EC) - **Isabelle LA JEUNESSE** (Tours U.) - **Eric BRUN** (ONERC) - **Peter BRAESICKE** (KIT, ECRA-Chair)

19:00 Cocktail - at city hall sponsored by ECRA

## TUESDAY 6

8:15 Welcome

Signals and indicators of impacts on natural environments  
8:30-10:30

Dan ISAAK - U.S. Forest Service, Boise (US)  
Big data compilations to engage conservation communities and assess climate change effects on aquatic environments

Quentin CHOFFEL (FR)  
Mathieu FLOURY (FR)  
Verena HUBER-GARCIA (DE)  
Apostolos-Manuel KOUSSOROPLIS (FR)  
Michel LAFFORGUE (FR)  
Laure BOUYER (FR)

10:30 Coffee Break

Signals and indicators of impacts on water resource 1  
11:15-12:30

Renaud BARBERO (FR)  
Magali DECHESNE (FR)  
Sihem BENABDALLAH (FR)  
Pratima BHURTUN (FR)  
Isabelle COUSIN (FR)

12:30 Lunch Break

Posters session

Management of ecosystems and agrosystems as adaptation strategies  
14:00-15:45

Wilco VERBERK - Radboud U. Nijmegen (NL)  
Climate change and hypoxia in aquatic ecosystems: which species are most vulnerable and what can we do ?

Virginie ANQUETIL (FR)  
Philippe BALANDIER (FR)  
Dalenda MAHJOU BOUJNAH (TN)  
Nathalie OLLAT (FR)  
Elisa MARGUERIT (FR)

15:45 Coffee Break

Technical innovation for water resource management  
16:15-17:30

Martin DREWS (DK)  
Raed FEHRI (BE)  
Sonja BEHMEL (CA)  
Julien ORSONI JOURDAIN (FR)  
Ewert AUKES (NL)

17:30 Break

18:30 Gala Dinner

## WEDNESDAY 7

8:15 Welcome

Governance and water management  
8:30-10:30

Hans BRESSERS - Twente U. (NL) - Keynote  
Analysing the quality of the governance context for multi-stakeholder adaptive river management

David AUBIN (BE)  
Fariba EBRAHIMIAZARKHARAN (IR)  
Marie FOURNIER (FR)  
Maia LORDKIPANIDZE (NL)  
Ophélie TOUCHARD (FR)

Posters session

10:30 Coffee Break

Signals and indicators of impacts on water resource 2  
11:15-12:30

Arnaud WUILLEUMIER (FR)  
Eric MARTIN (FR)  
Fabian VON TRENTINI (DE)  
Janja VRZEL (DE)  
Bruno MOUGIN (FR)

Concluding remarks  
12:30-13:00

14:00 Excursion the Royal Château of Amboise

# International conference Climate change & WATER 2018

February 5-7  
Tours, France

## Monday 5th of February 2018

08h30

## VINCI - Amphitheater Descartes

Welcome & Registration

### Opening session

09h00-09h10	<b>François BONNEAU</b>	Opening by the Centre-Val de Loire Region President
09h10-9h15	<b>François BERTRAND</b>	French cluster Dream (Water & Environments)
09h15-09h20	<b>Catherine HENAULT</b>	MiDi Network (Environments & Diversity)
09h20-09h30	<b>Isabelle LA JEUNESSE &amp; Sylvain PINCEBOURDE</b>	Opening CCW 2018 conference
09h30-10h15	<b>Jean JOUZEL</b>	<i>invited speakers</i>
10h15-10h30	<b>Eric BRUN</b>	Water management & territories in the second phase of the French National Adaptation Plan to Climate change
10h30		<i>Coffee Break</i>
11h15-11h45	<b>Philippe QUEVAUVILLER</b>	<i>invited speakers</i>

### Overview of the conference themes in the climate-water-adaptation nexus

11h45-12h00	<b>Philippe KER RAULT</b>	Downscaling of climate change scenarios to river catchment level: a transdisciplinary methodology and application in ecosystem services and land-use change at European catchments
12h00-12h15	<b>Sarah FEUILLETTE</b>	Adaptation strategy of the Seine-Normandie Hydrographic district
12h15-12h30	<b>Ana IGLESIAS</b>	Vineyards in transition: a global assessment on the adaptation needs to climate change
12h30		<i>Lunch Break</i>

### Posters sessions

#### Adaptation and water resource management

14h00-14h15	<b>Julie FABRE</b>	A semi-quantitative assessment of climate change vulnerability in the water sector to determine priorities for adaptation
14h15-14h30	<b>Amandine AMAT</b>	Identifying impacts of climate change on the sharing of water resource between industrial users
14h30-14h45	<b>Aldo PENASSO</b>	Assessment of climate change impacts on the management of the Arzal dam
14h45-15h00	<b>Benoît ROSSIGNOL</b>	Adaptation to the impacts of climate change on the Loire basin and its tributaries: Zoom on two cases of operational integration of scientific knowledge
15h00-15h15	<b>Omer CHOUINARD</b>	Community mobilization in two rural communities on the Acadian coast, New Brunswick Canada, to address water and climate change.
15h15-15h30	<b>Eirini SKRIMIZEA</b>	What kind of adaptation strategies for the Mediterranean islands? Water mismanagement, tourism, and climate change
15h30		<i>Coffee Break</i>

#### Adaptation in urban areas

16h00-16h15	<b>Lydia VAMVAKERIDOU-LYROUDIA</b>	Enhancing the resilience of interconnected critical infrastructures to urban flooding in Torbay, UK
16h15-16h30	<b>Thomas THALER</b>	Motivation and drivers in bottom-up developments in flood hazard management: why societal transformation is needed?
16h30-16h45	<b>Adeline CLIFFORD</b>	Restoring Small Rivers Located in Urban Environments: Key Findings
16h45		<i>Break</i>

#### ECRA Session

#### Societal challenges related to climate change impacts on the hydrological cycle - risk analysis, vulnerability and adaptation

17h00-17h15	<b>Peter BRAESICKE</b>	Welcome by ECRA chair, Helmholtz Association, KIT
17h15-17h30	<b>Chantal GASCUEL</b>	Keynote 1- Agrohydrology, INRA, FR
17h30-17h45	<b>Eric MARTIN</b>	Keynote 2 - IRSTEA, FR
17h45-18h30	Panel discussion : <b>Jean JOUZEL</b> (CEA/CNRS/UVSQ) - <b>Philippe QUEVAUVILLER</b> (EC) - <b>Isabelle LA JEUNESSE</b> (Univ. of tours) - <b>Eric BRUN</b> (ONERC) - <b>Peter BRAESICKE</b> (KIT, ECRA-Chair)	

18h30

*Break*

19h00

**Cocktail (end ~ 20h30) - at the city hall, Tours**

# International conference Climate change & WATER 2018

February 5-7  
Tours, France

## Tuesday 6th of February 2018

8h30

Welcome

### Signals and indicators of impacts on natural environments

08h30-09h00	<b>Dan Isaak</b>	<b>Big data compilations to engage conservation communities and assess climate change effects on aquatic environments</b>
09h00-09h15	<b>Quentin CHOFFEL</b>	High accuracy thermal study of one Vosges du Nord Natural Regional Park's watershed: starting point of a climate changes diagnostic at the local scale.
09h15-09h30	<b>Mathieu FLOURY</b>	Long-term trends in macroinvertebrate communities of the Middle Loire River: functional responses to climate change and local confounding factors
09h30-09h45	<b>Verena HUBER-GARCIA</b>	Developing future scenarios of spatially distributed land and water use to assess the effects on aquatic ecosystems in four European river basins
09h45-10h00	<b>Apostolos-Manuel KOUSSOROPLIS</b>	The nutritional quality of phytoplankton influences the tolerance to extreme water temperatures in the waterflea <i>Daphnia magna</i>
10h00-10h15	<b>Michel LAFFORGUE</b>	Expected impacts of global warming on water-forests interactions
10h15-10h30	<b>Laure BOUYER</b>	Impact of nitrogen nutritional status on the dynamics of xylem hydraulic failure and non-structural carbohydrates under moderate and severe droughts in fast-growing trees ( <i>Populus</i> spp.)

10h30

Coffee Break

### Signals and indicators of impacts on water resource 1

11h15-11h30	<b>Renaud BARBERO</b>	Intensification in short-duration precipitation extremes in the data-covered regions of the world
11h30-11h45	<b>Magali DECHESNE</b>	Local impact of climate change on drinking water production systems on the horizon 2050
11h45-12h00	<b>Sihem BENABDALLAH</b>	Assessment for technological needs for climate change adaptation in Tunisia
12h00-12h15	<b>Pratima BHURTUN</b>	Towards the comprehension of the impact of climate change on surface water quality in Northern France - A case study of the River Selle (France)
12h15-12h30	<b>Isabelle COUSIN</b>	Estimating the Available Water Content by coupling pedological approaches and inverse modelling: the RUEdesSOLS project

12h30

Lunch

### Posters sessions

#### Management of ecosystems and agrosystems as adaptation strategies

14h00-14h30	<b>Wilco VERBERK</b>	<b>Climate change and hypoxia in aquatic ecosystems: Which species are most vulnerable and what can we do?</b>
14h30-14h45	<b>Virginie ANQUETIL</b>	River restoration as an adaptation to climate change: Towards a definition of socio-ecological resilience, the case of Flume river in Brittany
14h45-15h00	<b>Philippe BALANDIER</b>	Can mixed forests help to save water?
15h00-15h15	<b>Dalenda MAHJOU BOUJNAH</b>	Assessment of the olive tree adaptation to water stress and tool to increase crop performance in the context of climatic changes
15h15-15h30	<b>Nathalie OLLAT</b>	Wine and water: which challenges ?
15h30-15h45	<b>Elisa MARGUERIT</b>	The use of genetic variability in plant material of the grapevine: an environmentally friendly way to adapt to increasing drought

15h45

Coffee Break

#### Technical innovation for water resource management

16h15-16h30	<b>Martin DREWS</b>	Challenges of Data Availability for Analysing the Water-Energy Nexus
16h30-16h45	<b>Raed FEHRI</b>	Together4water: Implementing an open-source database to monitor SDG related water indicators in Tunisia
16h45-17h00	<b>Sonja BEHMEL</b>	Intelligent decision support system to plan, manage and optimize water quality monitoring programs based on a participative approach
17h00-17h15	<b>Julien ORSONI JOURDAIN</b>	Project of an Indirect Potable Reuse (IPR) demonstrator in Vendée to face water scarcity
17h15-17h30	<b>Ewert AUKES</b>	Climate change adaptation in coastal systems: Framing for adoption of innovative technologies

17h30

Break

18h30

Gala Dinner (end ~ 23h30)



# International conference Climate change & WATER 2018

February 5-7  
Tours, France

## Wednesday 7th of February 2018

08h30

Welcome

### Governance and water management

08h30-09:00	<b>Hans Bressers</b>	<b>Analysing the quality of the governance context for multi-stakeholder adaptive river management</b>
09h00-09h15	<b>David AUBIN</b>	The central role of basin authorities in the governance of water: A social network analysis of the Thau Basin in France
09h15-09h30	<b>Fariba EBRAHIMIAZARKHARAN</b>	The analysis of social relations of water resources beneficiaries networks toward water resources co-management and adaptation in the face of the effects of climate change (Case study: Iran, Taleghan watershed)
09h30-09h45	<b>Marie FOURNIER</b>	What challenges for land use governance in wetlands, in a context of climate change? The case of the Ile Saint Aubin (Angers, France)
09h45-10h00	<b>Maia LORDKIPANIDZE</b>	Towards a new model for the governance of the Weerribben-Wieden National Park
10h00-10h15	<b>Ophélie TOUCHARD</b>	The Truth is out there": urban governance in the age of ecological uncertainty – The Wetlands issue in Bordeaux Metropole (France)

10h30

Coffee Break

### Posters session

#### Signals and indicators of impacts on water resource 2

11h15-11h30	<b>Arnaud WUILLEUMIER</b>	Looking for trends within the water cycle of the "gave de Pau" and "gave d'Oloron" catchment areas
11h30-11h45	<b>Eric MARTIN</b>	Observed impact of climate change on the water resources of a small Mediterranean catchment (the Réal Collobrier, France)
11h45-12h00	<b>Fabian VON TRENTINI</b>	Climate indicators and their local hot spots in Bavaria, Germany, derived from a large ensemble of climate models
12h00-12h15	<b>Janja VRZEL</b>	Multi-tool simulations to assess the hydrological system behavior of the Ljubljansko polje aquifer under climate change conditions
12h15-12h30	<b>Bruno MOUGIN</b>	MétéEau des nappes, a tool able to show impacts of climate change on groundwater resource at local scale

12h30-13h00

Concluding remarks CCW2018

14h00

**Excursion to Amboise – Château Royal (end ~ 17h30)**  
[www.chateau-amboise.com](http://www.chateau-amboise.com)

# International conference Climate change & WATER 2018

February 5-7  
Tours, France

## Posters session

Number	Author	Title	Country
1	Bia AFFO	Evaluation de la Qualité de la végétation ripisylve du Bassin versant de l'Ourika (Haut-Atlas)- MAROC	MA
2	Delphine ALLIER	Testing different approaches to evaluate groundwater vulnerability to climate change	FR
3	Yerima AMADOU	L'eau et pérennisation des cultures maraichères sur les berges du fleuve logone à n'djamena, au tchad	TD
4	Babar BALOCH LATIF	Climate variability and food security in Punjab districts, Pakistan	PK
5	Wissal BAITE	Contrat de la nappe de ghiss-nekor : mode de gestion et mesure d'adaptation aux changements climatiques	MA
6	Faiza BALLA	The management of water erosion and its impact and vulnerability on the environment (catchment of chemorah wadi North-eastern Algeria)	DZ
7	Pratima BHURTUN	Vulnerability of surface water quality in northern France to climate change	FR
8	Brenda BUTALI	Analysing the Hydrologic impacts of climate change on River Nile using a linked modelling system	UG
9	Salima CHARIFI BELLABAS	Cartographie des zones inondables du bassin versant de Sebaou (Algérie)	DZ
10	Adeline CLIFFORD	Reducing Water Leakages in Drinking Water Distribution Networks Presentation of Action Plans	FR
11	Adeline CLIFFORD	Promoting the Added Value of Ecological Engineering to Elected Officials	FR
12	Adeline CLIFFORD	Methodology for Evaluating Greenhous Gas Emissions Produced by Water and Sanitation Services	FR
13	Isabelle COUSIN	Evaluating the ecosystem services linked to water in agricultural ecosystems	FR
14	Farouq DAOUD	Contribution à l'étude de l'impact de la variabilité climatique sur les ressources en eau du bassin versant de la Macta (Ouest Algérien) – analyse des conséquences d'une sécheresse persistante.	DZ
15	Farouq DAOUD	L'étude de l'impact du changement climatique sur le régime pluviométrique concernant le bassin versant du Hodna (centre Algérie).	DZ
16	Skyler Jayden DEMBE	Assessing the impacts of climate change scenarios on water resources availability of river Nyamwamba's overflow in Kasese District	UG
17	Latifa DHAOUADI	Saving water irrigation: Irrigation systems under date palm in climatic oasis conditions	TN
18	Fariba EBRAHIMIAZARKHARAN	The role of Social Network Analysis for Water resources Management and sustainable development (Case study: Darbandsar Watershed)	IR
19	Sarrah EZAIDI	Services environnementaux et changements climatiques dans la région de sous-massa : évaluation de la vulnérabilité des ressources en eau et conception d'un modèle de paiements pour services environnementaux.	MA
20	Redouane FARES	Determination of the sea waters quality of Arzew-Algeria Gulf	DZ

# International conference Climate change & WATER 2018

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## Posters session

Number	Author	Title	Country
21	Anne FAURE	The role of land-use planning and civil society in protecting water resources in small rural coastal communities in New Brunswick in the context of climate change	CA
22	Rodrigue Aimé FEUMBA	The use of local indicators of the rainy season's effective start as signals for the start of the sowing operations by small-scale farmers in West Cameroon.	CM
23	Noureddine GAALOUL	Apport du futur satellite SWOT pour l'étude de la variabilité hydrologique d'un bassin méditerranéen: Cas de la Medjerda	TN
24	Ali GHARB	Climate change in Tunisia: Rainfall trend analysis in Tunis City in a context of climate variability	TN
25	Mathilde GRALEPOIS	Are Flood Sustainable ? Reasons of non-integration of flood prevention in sustainable development	FR
26	Mourad GUESRI	Etude des changements hydro-climatiques dans le bassin versant ksob (nord-est d'Algérie)	DZ
27	Hind HADDANI	Monitoring of treatment performances and Modeling by WEST program of wastewater stabilization ponds treatment plant in the area of Chichaoua (Marrakech- Morocco)	MA
28	Martin IBOCK	Répondre À L'assèchement Des Eaux Du Lac Tanganyka. Une Approche De La Gouvernance Par « Le Haut »	CM
29	Dan ISAAK	The crowd-sourced NorWeST temperature database and massive microclimate scenarios for streams and rivers in the western U.S.	US
30	Dan ISAAK	Big biology meets microclimatology: Defining thermal niches of aquatic species for conservation planning using large interagency databases	US
31	Mokrane KADIR	Étude des régimes d'altération hydrologique sur le bassin transfrontalier Tuniso-Algerien de la Medjerda	BE
32	Dmitry KOZHEMYAKIN	Climate Change Impacts on the Water Balance of the Upper Dnister River	UA
33	Ralf LUDWIG	Climate change and hydrological extreme events – risks and perspectives for water management in Bavaria and Québec	DE
34	MZETP	Are landscapes in the Loire Valley threatened by climate change?	FR
35	Badr MABROUK	Global Climatic Change And Environmental Contamination Management For Water resources in west Nile Delta , Egypt	EG
36	Ssenyondo MAXI MBIDDE	The Effect of Climate Change Adaptation on Rural Community Livelihoods	UG
37	Robertson MBIDDE	Predicting the reliability of a soil hydrological model in arid conditions of Sugar cane fields of Kakira, Uganda	UG
38	Azzedine MEBARKI	Approche et cartographie par modélisation du bilan d'eau dans le bassin versant du Clain, département de la Vienne) et apports pour la simulation des écoulements selon les différents scénarios de changement climatique régional	DZ
39	Mrabti MONDHER	Rainfall trend analysis in the region of Chott El-Jerid in the south of Tunisia in a context of climate variability	TN
40	Sathaporn MONPRAPUSSORN	Evaluation of the impacts of climate and land use change on water resources for agriculture in Huay Luang river basin, Thailand	TH



# International conference Climate change & WATER 2018

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## Posters session

Number	Author	Title	Country
41	<b>Sher MUHAMMAD</b>	Observed estimates of changes in the Himalayan and Karakoram glaciers	CN
42	<b>Mounir KAOUTAR</b>	Relation between water stress and the necessity of changing the agricultural practices	MA
43	<b>Zouhour MSEKNI</b>	Water landscapes vulnerability to climate change in north-west Tunisia	TN
44	<b>Faridah NAKANWAGI</b>	Hydrogeochemical physiognomies and groundwater toxification in the industrial areas of Uganda	UG
45	<b>Anne NANDAWULA</b>	The impact of environmental and human factors on the quality of Aquifers in countryside and metropolitan aquatic systems	UG
46	<b>Tarek NASSER</b>	The vulnerability of agricultural system related to climate change in Beqaa plain, Lebanon: which strategies for better adaptation and management of water resources?	FR
47	<b>Ludovic PERRIDY OPPENEAU</b>	Nouveau Concept de Zones de Rejet Végétalisées	FR
48	<b>Nicco PLAMONIA</b>	Improving Coverage Area of Drinking Water Provision Using Build Operate and Transfer Investment in Indonesia	NL
49	<b>Elodie RANDREMA</b>	The Case of the Water Management Authority in Ile-de-France Region: working on multi-scale governance to improve resilience.	FR
50	<b>Amélie ROBERT</b>	When waste water becomes solution for urban agriculture...Case study in Ouagadougou (Burkina Faso)	FR
51	<b>Armel SAMBO</b>	Variabilité du lac Tchad : des perceptions locales aux stratégies d'adaptation endogènes au Changement climatique dans les activités agro-sylvo- pastorales	CM
52	<b>Tina SWIERCZYNSKI</b>	The European Climate Research Alliance – A network for innovative collaborative research on climate change	BE
53	<b>Mohamed TAABNI</b>	La multifonctionnalité des ressources en eau à l'épreuve du changement climatique : Evaluation des démarches et instruments territorialisés pour une gestion adaptative mis en œuvre en Poitou-Charentes.	FR
54	<b>Fabian VON TRENTINI</b>	Evaluating hydrometeorological extreme events in the ClimEx single model large ensemble in comparison with CORDEX results over Europe and Québec	DE
55	<b>Abdelhamid ZITOUNI</b>	La prospection des eaux souterraines : Apport à la gestion intégrée des eaux et mesure d'adaptation pour les impacts des changements climatiques au Maroc	MA