

***Riederalp 2018 Workshop on
Exposure, vulnerability and resilience of human societies to climate- and
weather-related disasters from the Holocene to the Anthropocene***

Riederalp, Switzerland, March 20-24, 2018

Jointly organized by:



**UNIVERSITÉ
DE GENÈVE**



Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

Yale University



Workshop Program

Workshop on Exposure, Vulnerability and Resilience of Human Societies to Climate- and Weather-Related Disasters from the Holocene to the Anthropocene

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WORKSHOP PROGRAM

Tuesday, March 20

Afternoon Participants arrive in Riederalp

18:30 Icebreaker, followed by supper (around 19:30)

Wednesday, March 21

08:30-09:00 M. Stoffel, F. Ludlow, J. Manning: Welcome by the organizers and meeting objectives.

SESSION 1: Concepts, databases and floods

09:00-09:20 *Rüdiger Glaser, University of Freiburg, Germany*
Conceptualisation of Climate Vulnerability and Resilience Through the Ages

09:20-09:40 *Michael Kahle, University of Freiburg, Germany*
Historical and Modern Hermeneutic Information on Climate, Vulnerability and Resilience

09:40-10:00 *Juan Antonio Ballesteros-Cánovas, University of Geneva, Switzerland*
Historical archives reveal recurrent extreme floods that have affected Kashmiri societies over the last millennium

10:00-10:20 *Libor Elleder, Czech Hydrometeorological Institute, Czech Republic*
Flood frequency analysis and vulnerability of human society

10:20-11:00 Coffee, tea, refreshments

11:00-11:20 *Gregor Zenhäusern, University Institute for Research on the History of the Alpine Area, Brig, Switzerland*
Natural disaster prevention and management in the Valais Alps in the past

11:20-11:40 *Scott St. George, University of Minnesota, United States*
The societal value of historical and paleoflood research in Manitoba, Canada

11:40-12:00 *Peter Stucki, University of Berne, Switzerland*
Historical reconstruction and numerical simulation of an extreme flood in 1868

12:00-12:20 *Thomas Thornton, University of Oxford, United Kingdom*
"These Mountains Saved a Lot of People": Alpine Flood Refuge Sites on the Northwest Coast of North America

12:30-17:00 Free afternoon for outdoor or indoor activities

SESSION 2 : OUTBREAK SESSIONS 1+2

19:30 Evening meal

Thursday, March 22

SESSION 3: Climate change, climate risks and droughts: their impacts on societies

- 09:00-09:20 *Joseph Manning, Yale University, USA*
Risks and Responses to climate change in the ancient world: the case of ancient Egypt
- 09:20-09:40 *Mario Rohrer, MeteoDat GmbH and University of Geneva, Switzerland*
Importance of climate variations on 'Pauperism' in Switzerland and Germany during the mid-19th century
- 09:40-10:00 *Albert Hafner, University of Berne, Switzerland*
Collapse, resilience and mobility in prehistoric agrarian societies. Can we prove relations to weather and climate?
- 10:00-10:20 *Christian Franzke, University of Hamburg, Germany*
Impacts of a Changing Climate on society and economy

10:20-11:00 Coffee, tea, refreshments

- 11:00-11:20 *Liang Emlyn Yang, Christian-Albrecht University Kiel, Germany*
Resilience of the human-water interrelationship at the Southern Silk Road: Evolution of the Northern Catchment of Erhai Lake, China (1382-1912)
- 11:30-11:40 *Yong Zhang, Chinese Academy of Sciences, Beijing, China*
A 2000-yr moisture history in the western Qilian Mountains of northwestern China: Evidence from tree rings
- 11:40-12:00 *Francis Ludlow, Trinity College Dublin, Ireland*
Extreme Weather as a Trigger of Violence and Conflict in Medieval Ireland
- 12:00-12:20 *Nathan Morrow, Tulane University, Unites States*
Armed conflict and environmental protection; GEF insights for security and sustainability

12:30-17:00 Free afternoon for outdoor or indoor activities

17:15-19:00 SESSION 4: OUTBREAK SESSION 3

19:45 Special Conference Dinner (information will be provided during the Workshop...)

Friday, March 23

SESSION 5: Natural disasters: assessment, risk and socio-anthropological dimensions

- 09:00-09:20 *Astrid Wigidal, Germany*
The social construction of disaster risk and vulnerability and resilience in the face of hazards in the Greater Everglades ecosystem
- 09:20-09:40 *Jamie McCaughey, Nanyang Technical University, Singapore*
Socio-economic consequences of post-disaster reconstruction in hazard-exposed areas
- 09:40-10:00 *Dmitry Petrakov, Moscow State University, Russian Federation*
Climate change, weather extremes and related hazards in the Caucasus in the early 21st century
- 10:00-10:20 *City University of Hong Kong, IRSTEA, Hong Kong (SAR)*
Past is key to Future: A Bottom-Up, Place-based approach for Spatial Risk Assessment to support Risk-Informed Planning and Management
- 10:20-10:40 *Sabrina Bradford, University of Colorado-Boulder, United States*
What Happens To Space In The Absence Of Place? The Anthropology Of Disaster Landscape In Waveland, Mississippi

10:40-11:20 Coffee, tea, refreshments

SESSION 6: Volcanic cooling and other weather anomalies and their impact on societies

- 11:20-11:40 *Sébastien Guillet, University of Geneva, Switzerland*
New insights on the climatic and societal impacts of the unidentified 535 CE and 1257 Samalas eruptions in Medieval Europe
- 11:40-12:00 *Al Matthews, Trinity College Dublin, Ireland*
Explosive Volcanism as a Driver of North Atlantic Marine Productivity, Fisheries and Markets, 1400-1850 CE
- 12:00-12:20 *Nicolas Maughan, Aix-Marseille University, France*
Climatic Effects and Agricultural Impacts of the 1815 Tambora Eruption: a European Overview from the Mediterranean to Central Europe

12:30-17:00 Free afternoon for outdoor or indoor activities

17:30-19:00 SESSION 7: OUTBREAK SESSIONS 4+5

19:30 Evening meal

Saturday, March 24

SESSION 8: Final plenary, wrap-up, future work

09:00-10:30 Reports from the breakout sessions

10:30-11:00 Coffee, tea, refreshments

11:00-11:30 The way forward, future work and coordination of decisions taken

11:30-11:45 M. Stoffel, F. Ludlow, J. Manning: Closing remarks from the organizers, farewell

12:00 Close of the meeting

Afternoon Participants depart from Riederalp