



## Working Group Kick-off Meeting 2024-2026

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## Outline

1. **Presentation of FWG**
2. **Activities and results of the past FWG phases (2015-2022)**
3. **FWG 2024-2025 goals and Work Packages**
4. **Proposed activities (2024-2025)**
5. **Discussion**
6. **Work Packages: discussion and planning**

# Floods people

## Learn more and participate

To subscribe to the Floods Working Group mailing list and be involved in the group's activities, please email the mailing list administrators: <https://listserv.unibe.ch/mailman/listinfo/floods.pages>

This group is open to anyone who is interested. To participate, please contact one of the leaders below.

## Phase III

### Leaders (and mailing list administrators)

[Lothar Schulte](#), University Barcelona

[Daniela Kroehling](#), National Scientific and Technical Council - Argentina

[Juan Antonio Ballesteros Cánovas](#), Spanish National Research Council

### PAGES Early-Career Network (ECN) representative (ECR and ECN)

[Ray Lombardi](#), University Memphis

### Data liaison officer

[Michael Kahle](#), University Freiburg

### PAGES SSC liaison

[M. Eugenia Ferrero](#) (CCT-CONICET-MENDOZA, Argentina)

### Scientific committee

[Gerardo Benito](#), Spanish National Research Council Rhawn Denniston, Cornell College

[Libor Elleder](#), Czech Hydrometeorological Institute (ECR) [Tao Liu](#), University of Arizona

[Neil Macdonald](#), University Liverpool [Mark Macklin](#), University Lincoln

[Rosa Mediavilla López](#), Spanish National Research Council [Samuel Munoz](#), Northeastern University

(ECR) [Archana Patil](#), Gokhale Education Society's RNC Arts, JDB Commerce and NSC Science College, India

[Juan Carlos Peña](#), Catalan Meteorological Service

[Juan I. Santisteban](#), University Complutense Madrid [Markus Stoffel](#), University Geneva

[Willem Toonen](#), Vrije Universiteit Amsterdam

(ECR) [Huiying Wang](#), Institute of Geology, China Earthquake Administration

<https://pastglobalchanges.org/science/wg/floods/people>

**Daniela Kröhling**  
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Tree rings  
Spanish National  
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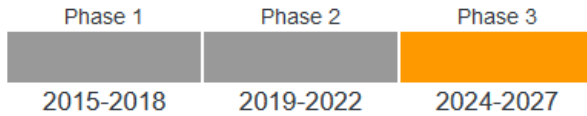
Hydrology  
Czech  
Hydrometeorological  
Institute  
WP 3 Lead

**Michael Kahle**  
[michael.kahle@geographie.uni-freiburg.de](mailto:michael.kahle@geographie.uni-freiburg.de)

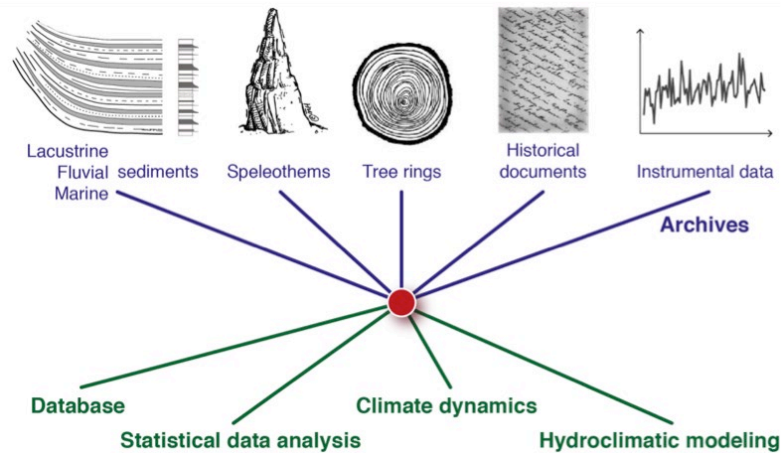


Geodata  
University of Freiburg  
Germany  
Data Liaison Officer

# Approval of the 3<sup>rd</sup> Phase of the Floods Working Group (December 2023)



The Floods Working Group (FWG) of the Past Global Changes project (PAGES) aims to bring together all the **scientific communities reconstructing past floods** (historians, geologists, geographers, biologists, etc.) and those **studying current and future floods** (hydrologists, modellers, statisticians, etc.) to coordinate, synthesize and promote data and results on the **natural variability of floods**.



PAGES FWG White paper, 2017

**PAGES Early-Career Network (ECN) representative**  
(ECR and ECN) Ray Lombardi, University Memphis

## **PAGES SSC liaison**

Boris Vannière, CNRS - Université Franche-Comté

## **Scientific Committee**

Gerardo Benito, Spanish National Research Council

Rhawn Denniston, Cornell College

Libor Elleder, Czech Hydrometeorological Institute

Tao Liu, University of Arizona

Neil Macdonald, University Liverpool

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Rosa Mediavilla López, Spanish National Research Council

Samuel Munoz, Northeastern University

Archana Patil, Gokhale Education Society's RNC Arts, JDB

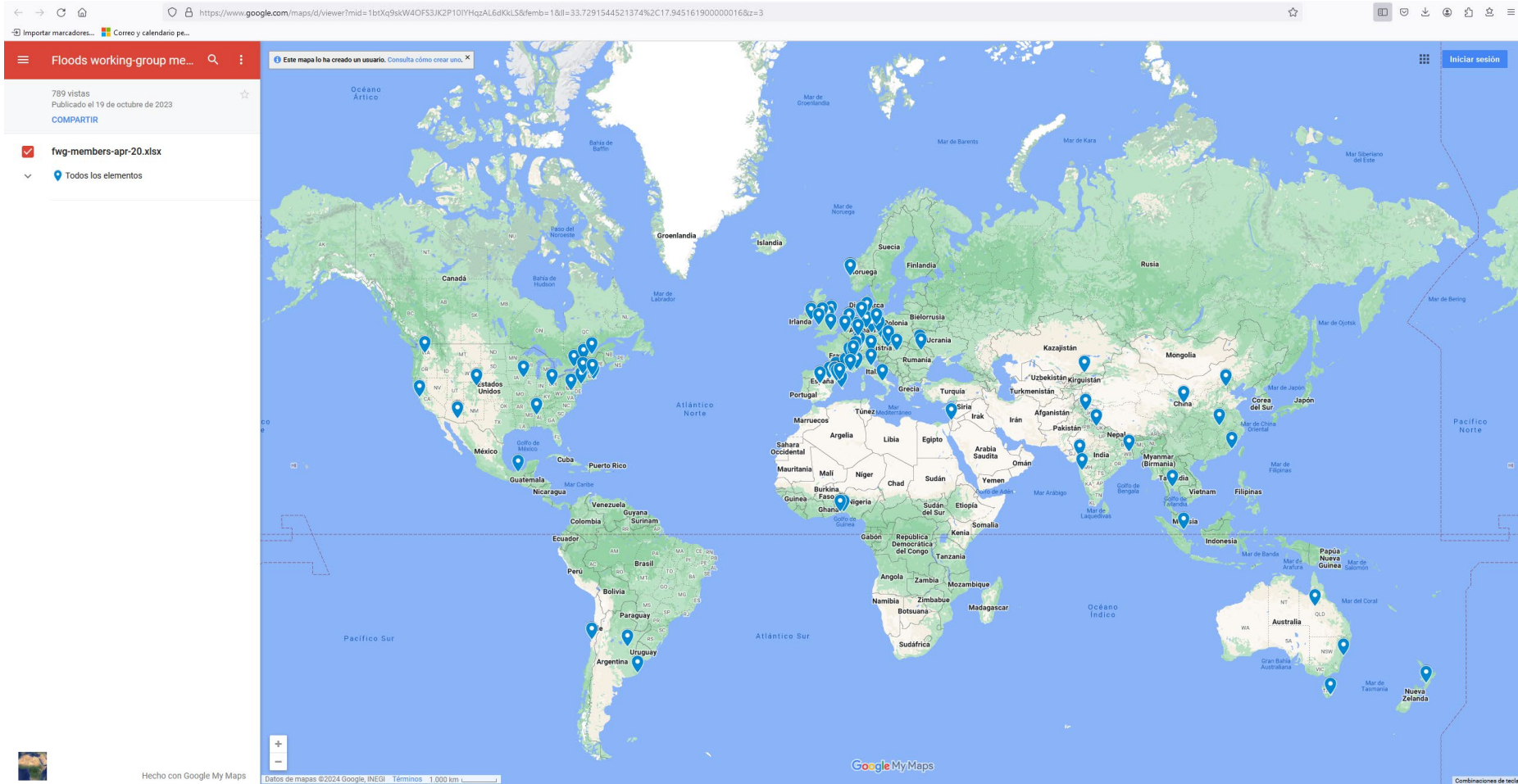
Juan C. Peña, Catalan Meteorological Service

Juan I. Santisteban, University Complutense Madrid

Markus Stoffel, University Geneva

Willem Toonen, Vrije Universiteit Amsterdam

Huiying Wang, Institute of Geology, China Earthquake Admin.



To subscribe to the Floods Working Group mailing list and be involved in the group's activities, please email the mailing list administrators: <https://listserv.unibe.ch/mailman/listinfo/floods.pages> or mail to: [dkrohli@gmail.com](mailto:dkrohli@gmail.com)



Workshop participants Grenoble FWG Meeting 2016



Grenoble FWG Meeting 2019



Paleoflood VI, Palmerston North + Rangitikei Fieldtrip  
2020, New Zealand



## Activities: 1. Workshops and co-sponsored sessions

### FWG Phase 1 [2015-2018]

EGU Vienna 2016, Austria  
*FWG Grenoble, 2016, France*  
OSM Zaragoza 2017, Spain  
EGU Vienna 2018, Austria

### FWG Phase 2: [2019-2022]

INQUA Dublin 2019, Ireland  
*FWG Geneva 2019, Switzerland*  
Palmerston North 2020, New Zealand  
*Pandemic 2020-21*  
OSM Agadir 2022, Morocco

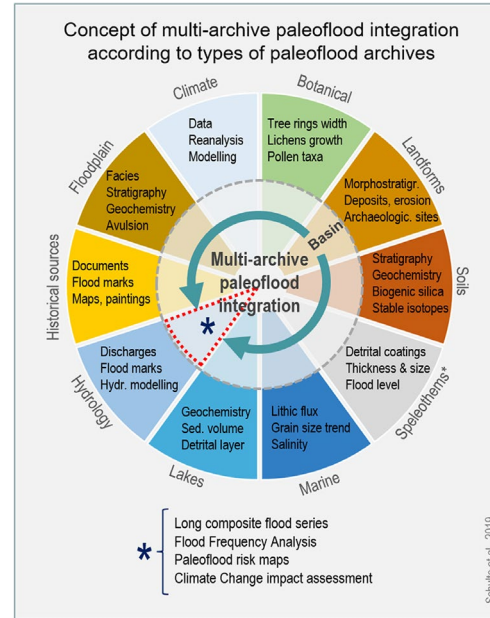
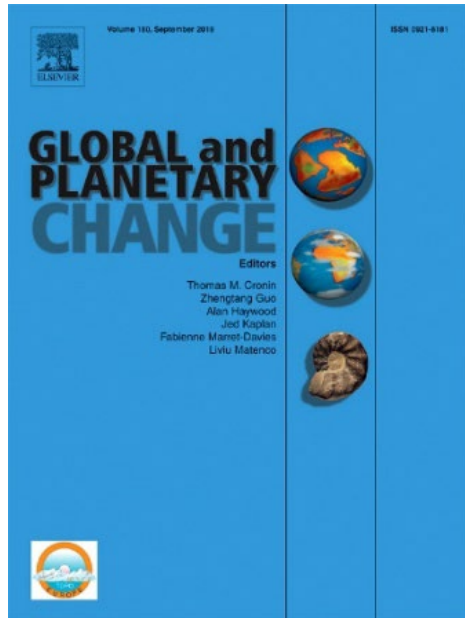
### FWG Phase 3: [2023-2026]

INQUA Rome 2023, Italy  
EGU Vienna 2024, Austria





## 4. WG Research (examples)



### Systematic meta-data analysis of paleoflood studies (VSI)

Studies focused on fluvial depositional environments show a higher rate of integration with other types of paleoflood archives (mean of 4.5 types of archive) than studies focused on documentary sources (mean of 3.5) and lake sediments (mean of 2.4).

<https://www.sciencedirect.com/journal/global-and-planetary-change/special-issue/10WJ2TCMHQ0>

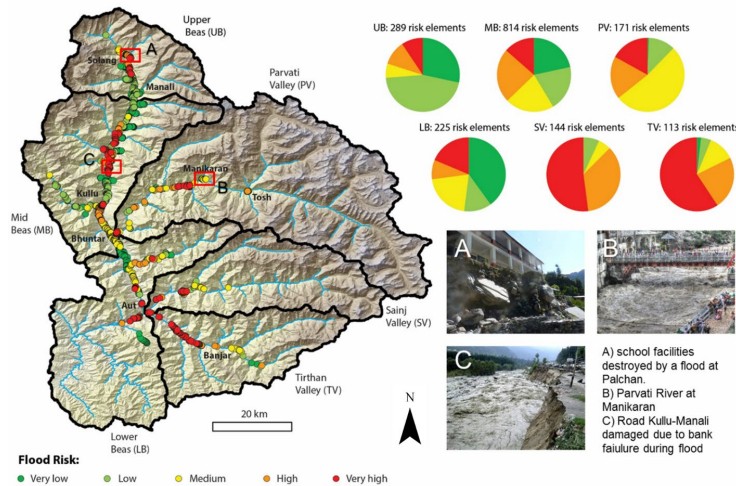
### Multi-archive integration Pilot Project in the Bernese Alps:

Development of a concept for the integration of multi-archive datasets (10 types) for the development of a four-dimensional paleoflood model of alpine catchments in the Bernese Alps from 1400 to present.

7 of 10 flood periods occurred during cooler climate pulses.

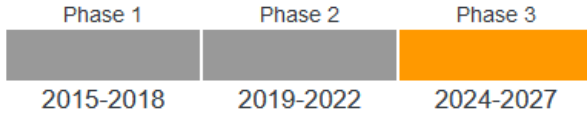
### Disaster Risk Reduction and Stakeholders

Contribution to the Global Assessment Report on Disaster Risk Reduction (GAR). Robust baseline data on past floods in the Indian Himalaya.



### Impact of warmer climate periods on flood hazard in the European Alps

A warming of 0.5–1.2 °C led to a 25–50% decrease in the frequency of large ( $\geq 10$  yr return period) floods.



## **FLOODS** Goals

- 1. WP1 ANTHROPO-FLOOD INTEGRATION.** The new topic is the historical role of human action in catchments and floodplains modifying flood frequencies, hydro-sedimentary and environmental processes. Evidences of the Anthropocene.
- 2. WP2 Disaster Risk Reduction.** The FWG will improve engagement with stakeholder and policymaker to show the add value of considering evidence-based paleoflood records for DRR policies.
- 3. WP3 Map of Extreme Floods.** Spatial analysis and velocity of flood propagation. Recently Elleder et al. (2023) developed a (MEF) on-line application (1432-2002) for the Czech Republic.
- 4. WP4 METADATA.** The FWG launch a new call for metadata of past flood series with focus on Asia, South America, Oceania and Africa.



Fig. 1. *Impact of the debris flow 24.08.2023 in the Gastern Valles, Switzerland*

Fig. 2. *Dendromorphological sampling and impact of the 24.08.2023 event in the Gastern valley, Switzerland. Photograph by L. Schulte, 2023.*  
<https://pastglobalchanges.org/science/wg/floods/intro>

# WP Anthro flood integration

## Phase III

Formerly work package (WP) 2 from Phase II.

This topic in phase III of the Floods WG is the historical role of human action in catchments and floodplains modifying flood frequencies, hydro-sedimentary and environmental processes (e.g. contamination). These processes in turn threaten communities and cultural heritage sites located in flood prone areas.

Key questions are how, when and where floodplains were heavily transformed worldwide by land-use, land reclamation, hydraulic management, industrialization, mining, etc. providing evidence for the Anthropocene?

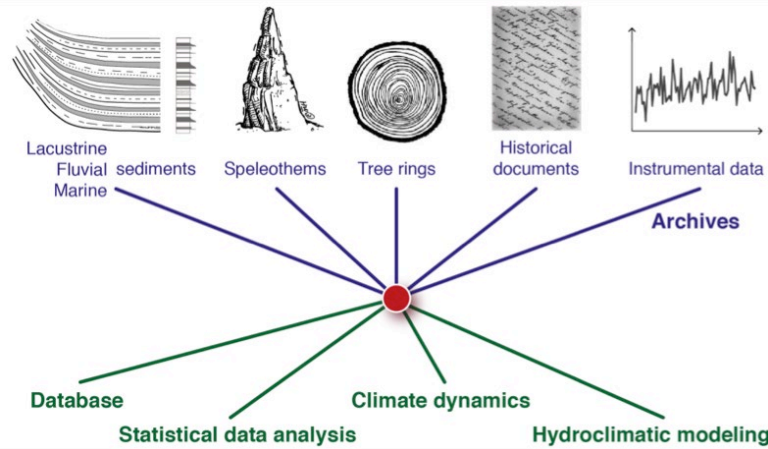
The ongoing regional multi-archive pilot studies in mountain regions (e.g. European and New Zealand Alps, Central Pyrenees, Himalaya, Andes) will address these issues by using cutting-edge methods (e.g. ancient sedimentary DNA; machine learning).

# FWG Pilot Project : Conceptual scheme for the integration of multi-archive datasets for the development of a four-dimensional paleoflood model of alpine catchments.

Starting point in 2016  
 Wilhelm et al., 2017. FWG White paper.

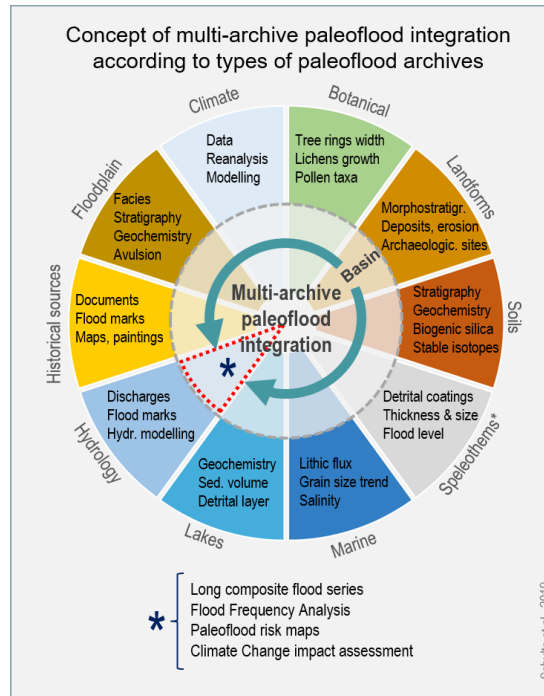


## Schematic illustration of the concept of the Floods Working Group

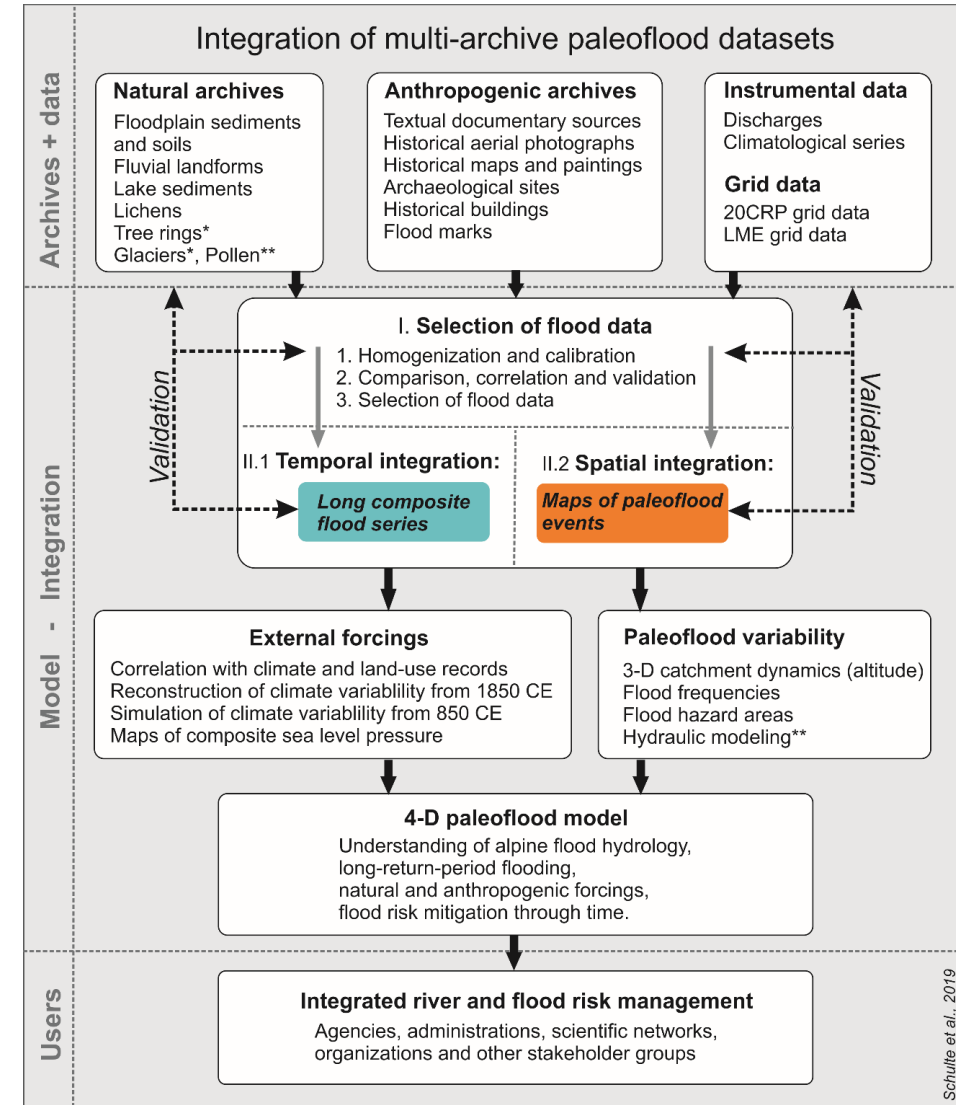


Schulte et al., 2019b. Global Planetary Change 177, 225-238

## Meta data analysis of paper contribution to the Special Issue



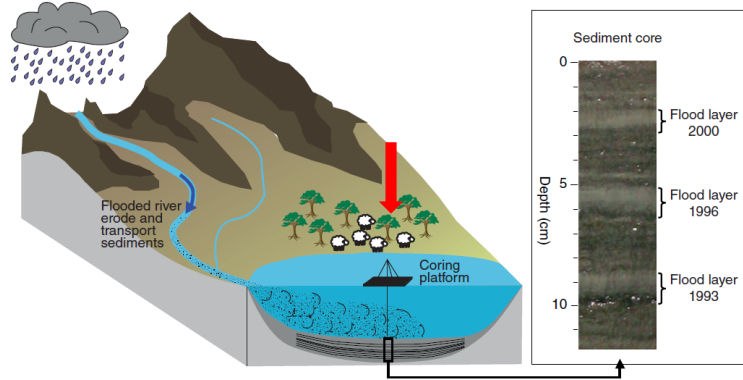
Concept of the pilot project Bernese Alps  
 Schulte et al., 2019b. Global Planetary Change 180, 66-88.



# Integrated disaster risk reduction policy requires a holistic vision of natural and historical flood evidences

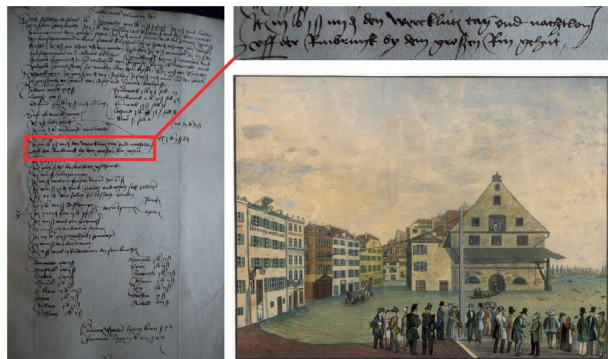
## Lake records:

Benjamin Amann, Stefanie Wirth, Bruno Wilhelm



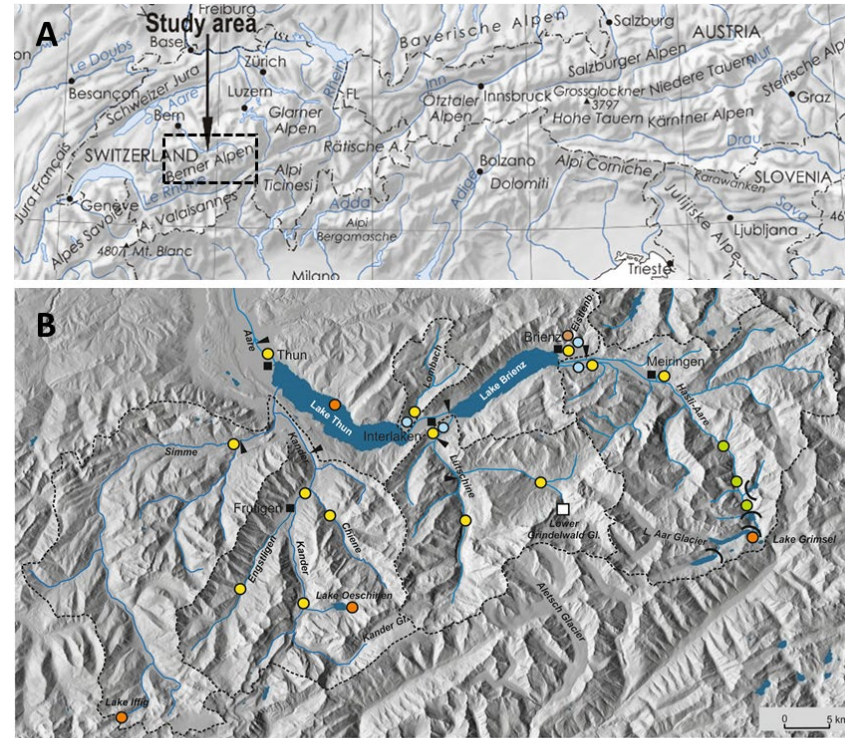
## Historical sources:

Oliver Wetter, Lothar Schulte



Figures from Wilhelm et al., 2019

Fig. Regional settings and type of archives in the Bernese Alps (2451km<sup>2</sup>)



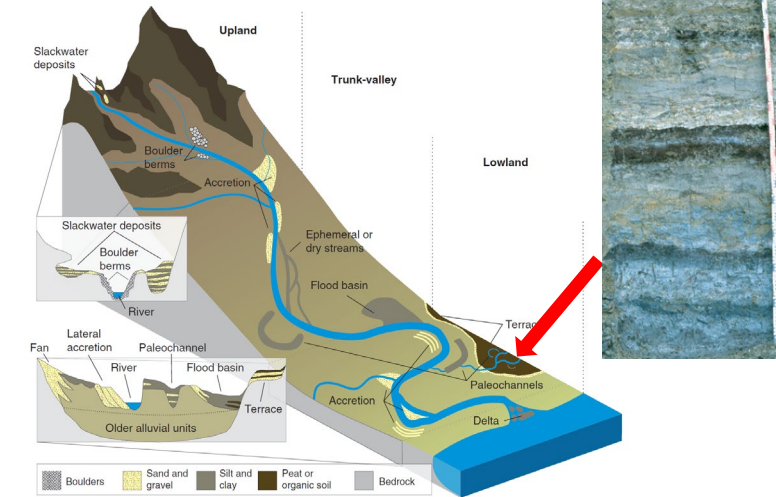
- Lake records
- Floodplain
- Document. sources
- Lichenometry
- Tree rings
- Glacier
- ▼ Gauging station
- Settlement
- Dam

Catchment	Type of archive	Catchment area km <sup>2</sup>	Elevation of flood record m a.s.l.	Highest elevation m a.s.l.
Lake Thun	Lake, historical	2451	558	4273
Hasli-Aare	Fluvial, hist., instr., lichen, lake Grim.	596	568	4273
Simme	Historical, instr., lake Iffig	594	663	3243
Kander	Historical, instr., lake Oes.	496	646	3698
Lütschine	Fluvial, hist., instr.	379	569	4158
Lombach	Fluvial, hist.	48	569	2085
Lake Oeschinen	Lake	21	1580	3661
Lake Grimsel	Lake	5	1908	2941
Lake Iffigsee	Lake	4,6	2065	3246
Eistlenbach	Fluvial, hist., tree rings	4	644	2204

Schulte et al., 2019b. Global Planetary Change 180, 66-88.

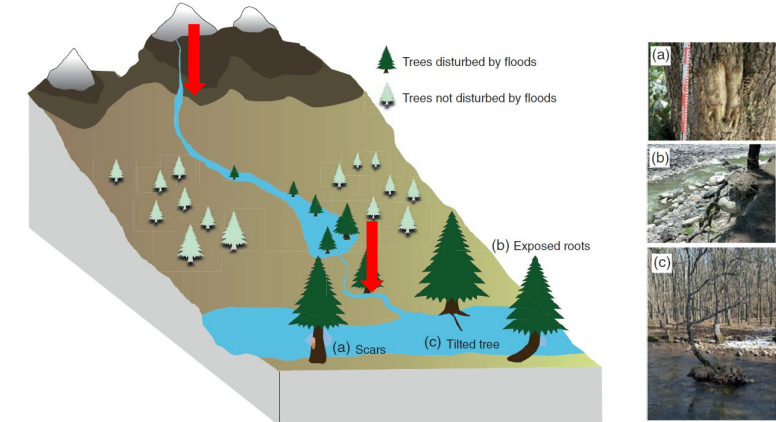
## Sedimentary floodplain records:

Lothar Schulte, Filipe Carvalho



## Botanical records:

Antonio Gómez-Bolea, Elena Muntan



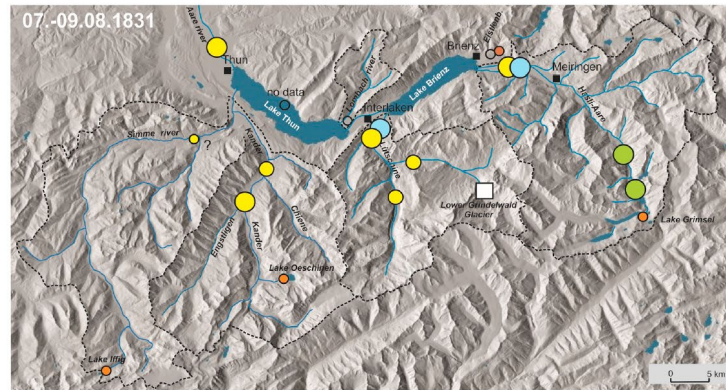
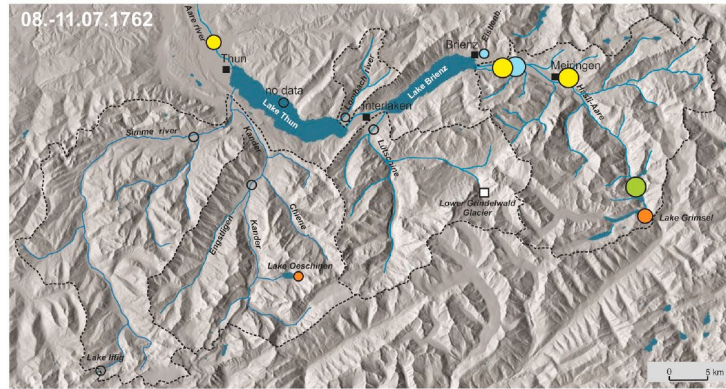
Figures from Wilhelm et al., 2019

# Maps of flood impact and composite sea level pressure and distribution paleoflood magnitudes of 17 flood episodes

Schulte et al., 2019b. Global Planetary Change 180, 66-88.

L. Schulte, et al.

Global and Planetary Change 180 (2019) 66-88



● Lake records   ● Floodplain   ● Historical flood damage   ● Lichenometry    Glacier length  
 Flood magnitude: ● recorded   ● moderate   ● severe   ● no data or record

Fig. 12. Spatial distribution of reconstructed flood magnitudes by flood archive type in the Bernese Alps. Maps show the flood episode from 8 to 11 July 1762 (top) and from 7 to 9 August 1831 (bottom). Shaded relief digital elevation model provided by Swisstopo.

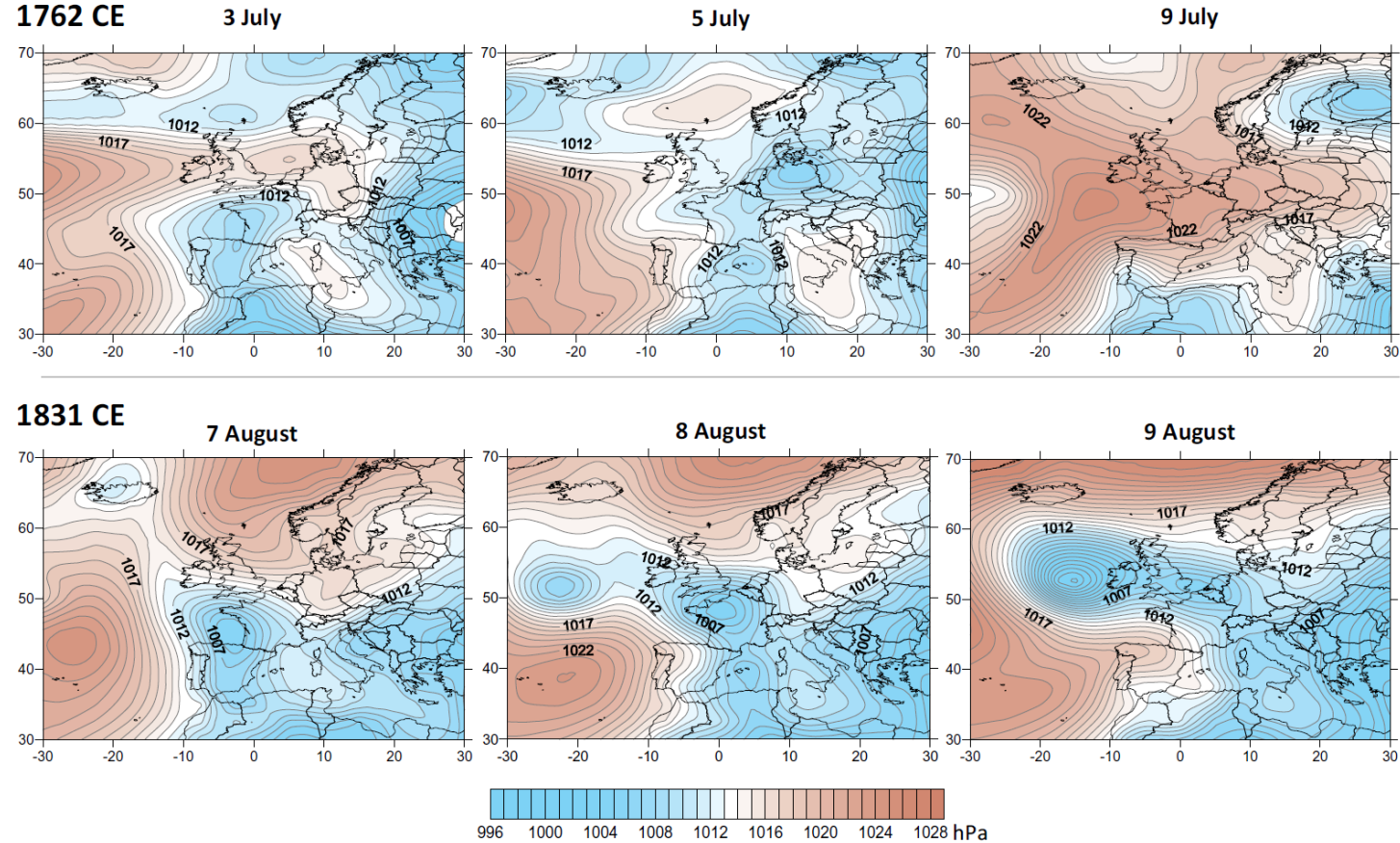
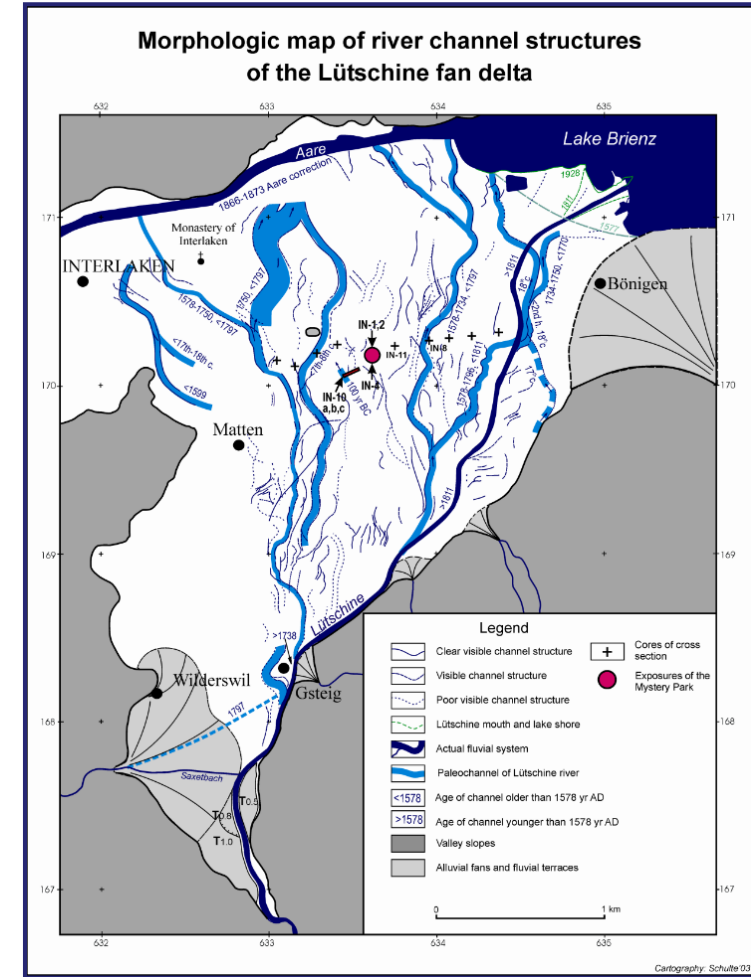
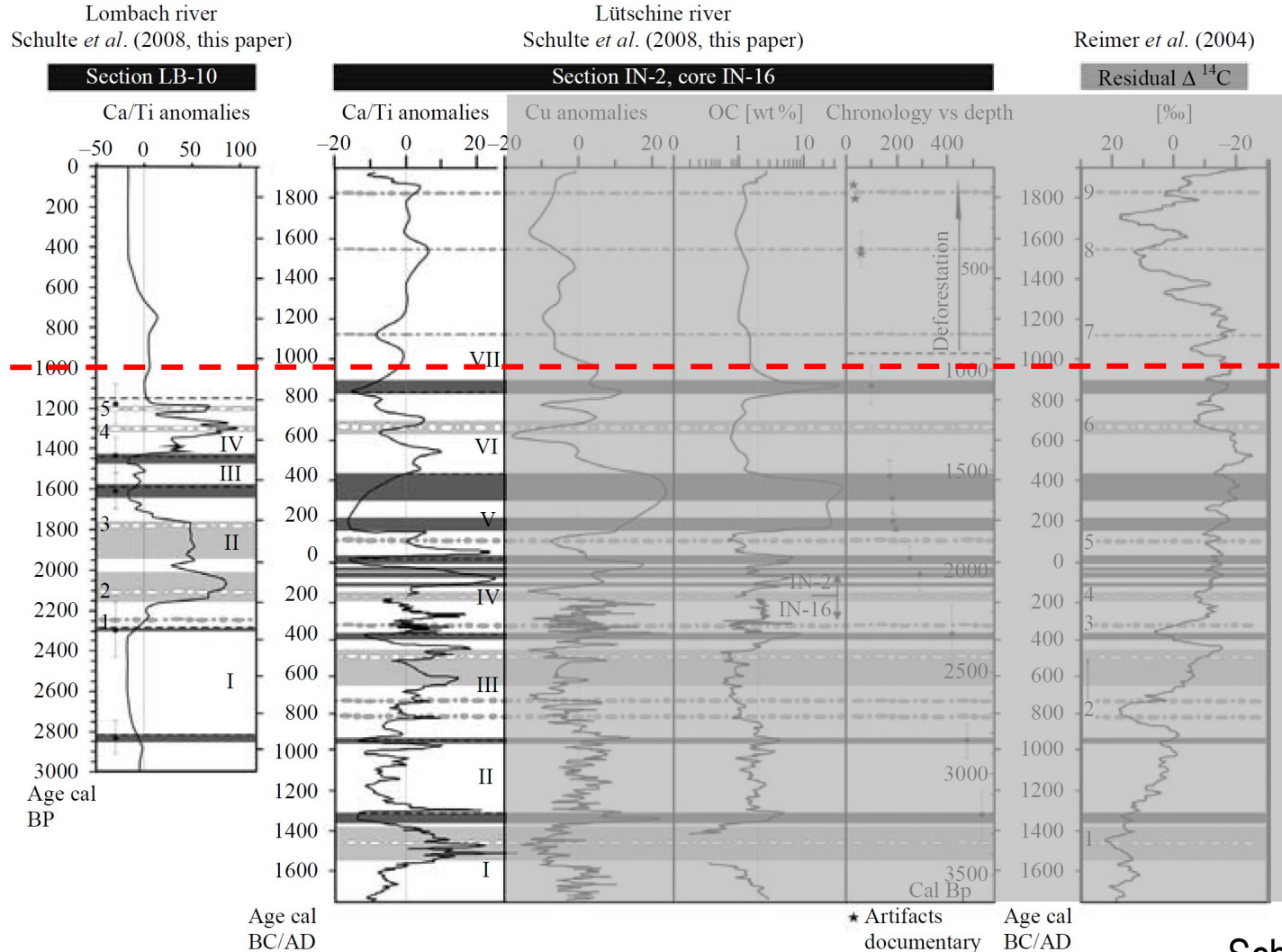


Fig. 13. Composite sea level pressure (hPa) as simulated from the CESM-LME (13 runs of full forcing) for the flood episodes 8 to 11 July 1762 (top) and 7 to 9 August 1831 (bottom).

# Changes in hydro-sedimentary processes and archives and floodplains related to human impact

Swiss Alps fan delta proxy data and correlation



Schulte et al., 2009a. *IJCCSM*, 1 (2), 197-210

Schulte et al., 2009b. *Geomorphology* 108, 107-121

■ Peat and organic-rich horizons

▨ Coarse-grained floodplain deposit

▨ Secondary channel deposits

II Environmental pulses  
2 Flood events

Schulte'08

★ Artifacts documentary sources

## WP 2 Disaster Risk Reduction.

# WP Disaster Risk Reduction

## Phase III

Formerly work package (WP) 3 from Phase II of the Floods WG.

The Floods WG will improve engagement with stakeholders and policymakers to show the added value of considering evidence-based paleoflood records for Disaster Risk Reduction policies, raising public awareness of paleoflood science, especially in regard to its role in achieving an improved understanding of flood risk, and contribute to the DRR agenda.

The overall goals of the FWG are to integrate and analyze existing paleoflood data at the regional and global scales and to promote and disseminate paleoflood science and data at different levels. To reach these overall goals, FWG has been structured in three Work Packages (WP).



# FWG's contribution to DRR during the 2<sup>nd</sup> phase

Paleoflood hydrology as unique baseline data to guide stakeholder in DRR

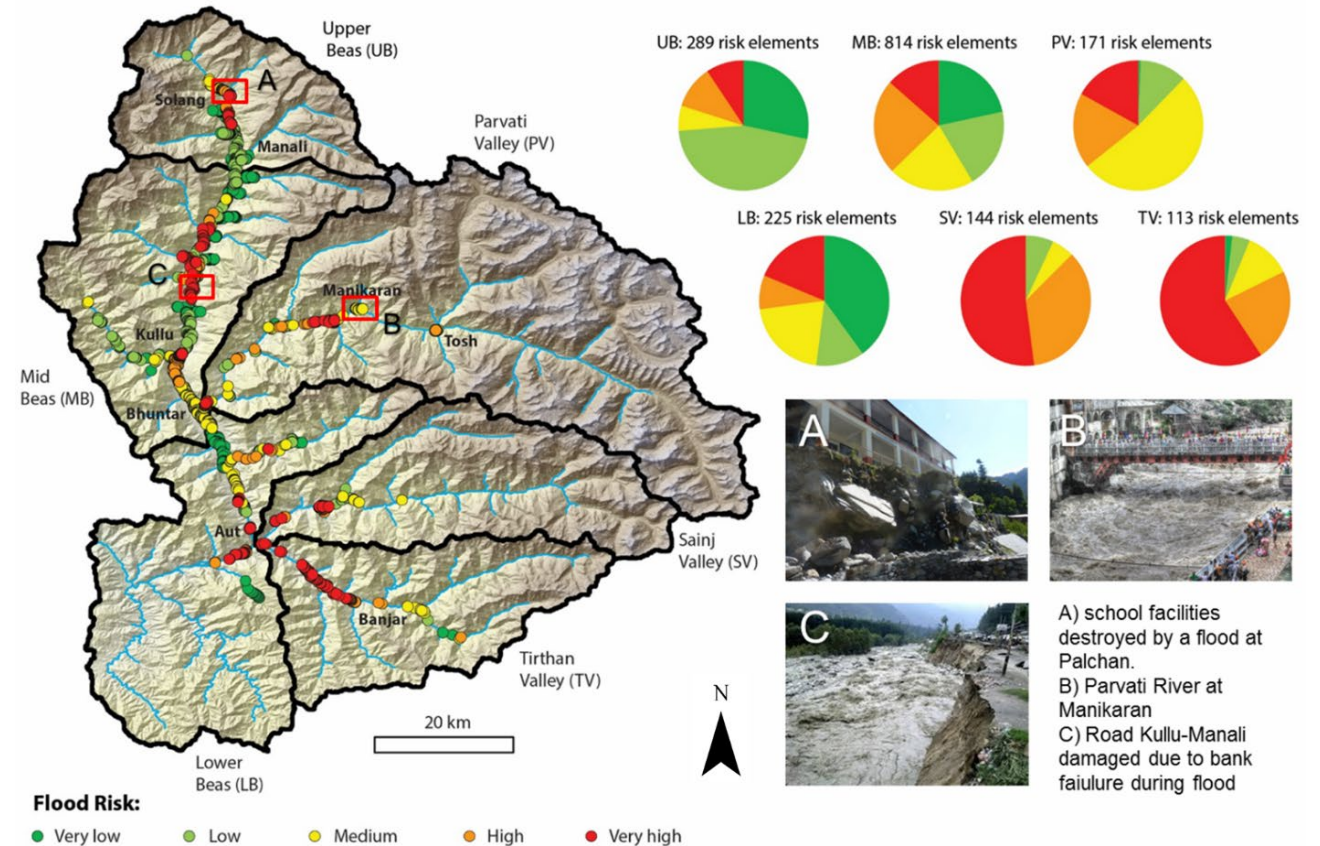
Home > Documents and publications

Working paper Author(s): Ballesteros-Cánovas, Juan A.; Allen, Simon; Stoffel, Markus

## The importance of robust baseline data on past flood events for regional risk assessment: a study case from the Indian Himalayas

Source: United Nations Office for Disaster Risk Reduction

According to the Sendai Framework for Disaster Risk Reduction, the understanding of the frequency, magnitude, and impact of recent and past extreme events is a cornerstone for coping with future disasters. Nevertheless, baseline data is often scarce, especially in mountain environments. Here, the authors show with an example how extending the records of past flooding contributes towards a more robust flood risk assessment in a poorly gauged, but highly populated mountain region in the Indian Himalayas (Kullu district; Himachal Pradesh). Drawing from tree ring-based evidence of past floods, this report reconstructs the occurrence of thirty-three flood events over the last century. This reconstruction complements substantially the existing records. The authors also used fieldbased and hydraulic modeling to estimate flood magnitudes, which were used to derive a regional flood frequency. Finally, the authors show



# FWG's contribution to DRR during the 3<sup>th</sup> phase

Paradigme change: toward a civil protection plans based on truth-evidence in moutains!



READAPT Project

HEMES Project

Life4Pyrenees

PI: Juan A. Ballesteros



Methodological guidelines: Floods in a Changing World

→ Implementing paleoflood data in 3rd revision of National Water Authorities Plans



## Latest Magazine



# Work Package Metadata

## Phase III

Formerly work package (WP) 1 from phase II.

**The FWG has launched a new call for metadata of past flood series with a focus on Asia, South America, Oceania and Africa.**

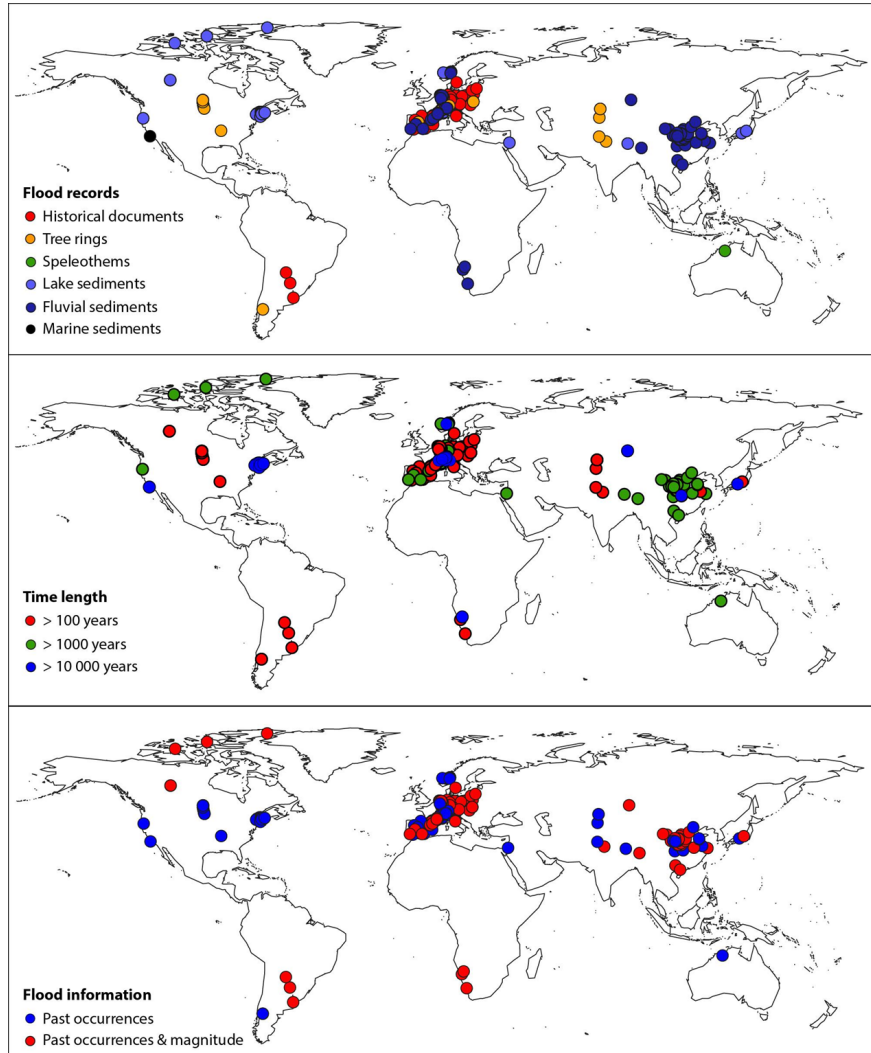
This database will include five main thematic data clusters documenting the following of the records:

- \* the source;
- \* location;
- \* time;
- \* classification; and
- \* reference

**Metadata collection:** <https://pastglobalchanges.org/science/wg/floods/wp1/metadata-collection>

**Metadata Table:** <https://pastglobalchanges.org/science/wg/floods/wp1/data>

# Meta Data Collection



Lots of candidates for a common flood database across all types of archives, countries and time ranges

Thanks to all contributors

Figure: Bruno Wilhelm, 2017

A PAGES Floods WG core project: Collaborative Flood Database for Multiple Archive Types

5/10/17

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## WP3 Map of Extreme Floods.

# WP Map of Extreme Floods (MEF)

## Phase III

This is a new work package of phase III of the Floods WG.

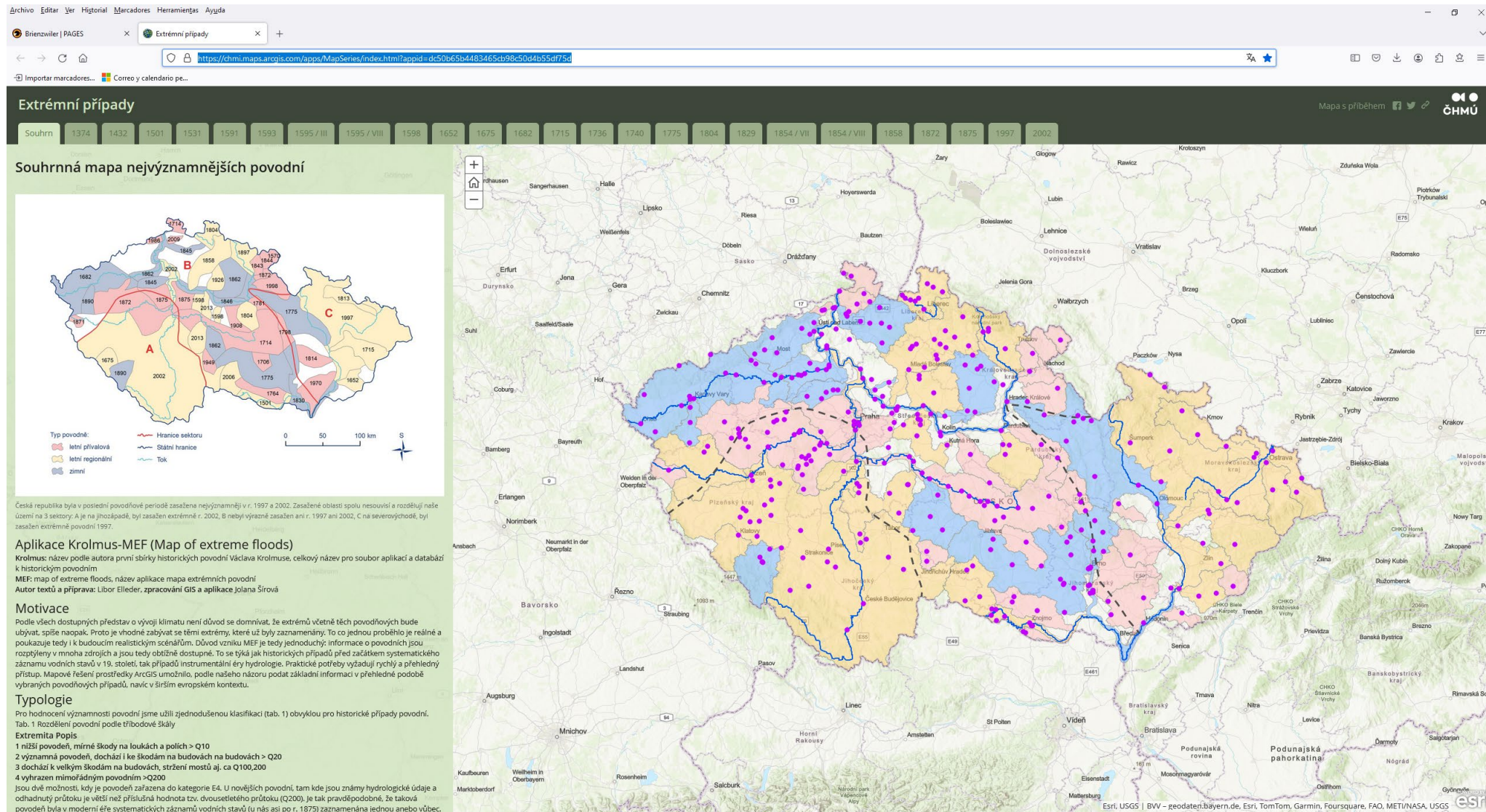
**The goal is the spatial analysis and velocity of flood propagation.**

Recently [Elleder et al. \(2023\)](#) developed a Map of Extreme Floods (MEF) on-line application (1432-2002) for the Czech Republic, which will be extended to other Central European countries.

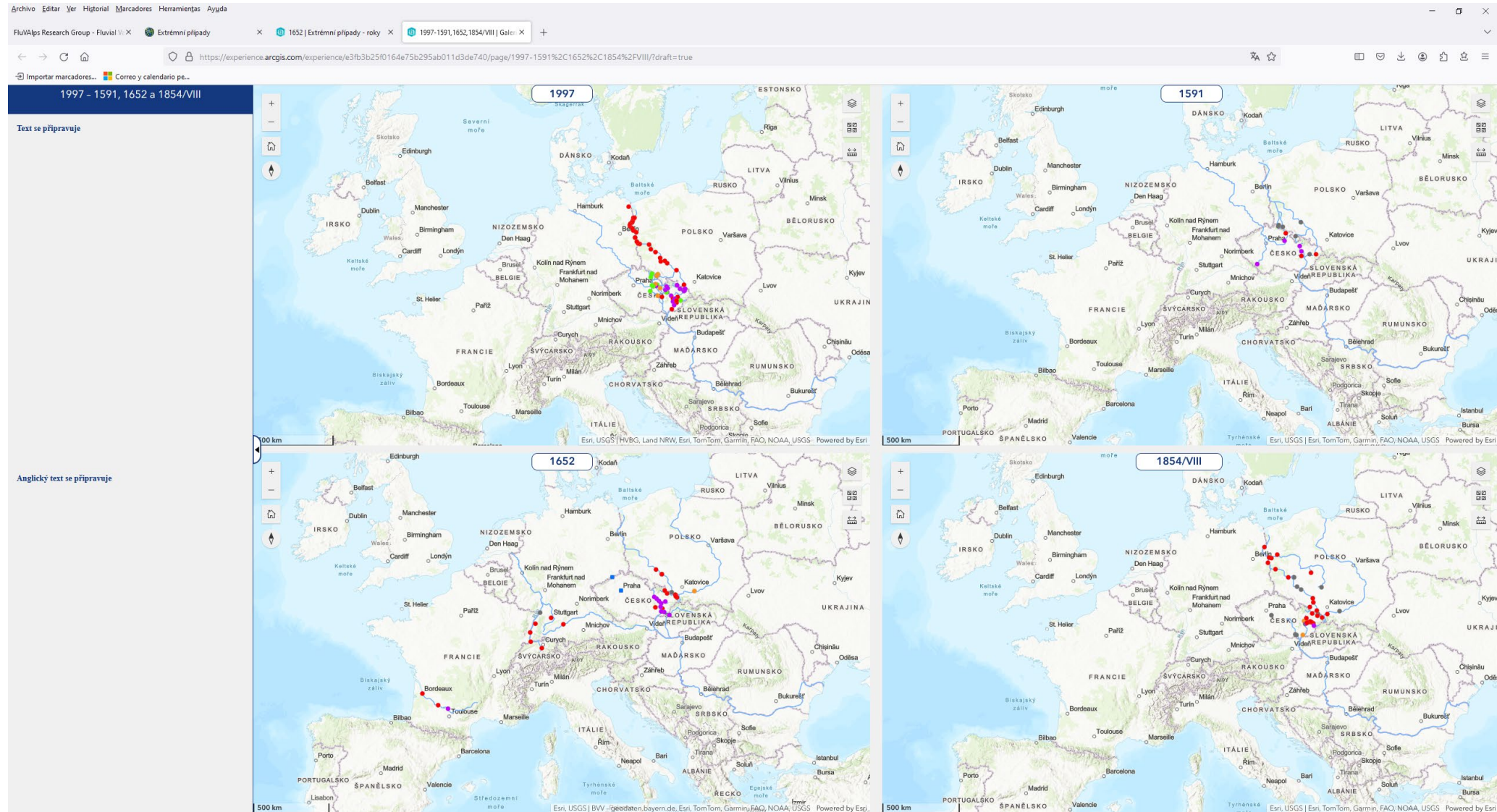
More information will follow.

For more information, contact the [Phase III Leaders](#).

# Elleder, L. 2021. Map of Extreme Floods



# Elleder, L., 2024. The MEF online ArcGIS ESRI application (yr. 1432-2002) for the Czech Republic and neighboring regions



## Latest Magazine



### 31 (2) Young scientists at the leading edge of ice-core research

Ailsa Chung, Niklas Kappelt, Florian Painer, Lison Soussaintjean, V. Holly L. Winton, Giulia Sinnl, Olivia L. Williams and I. Hernández-Almeida

[Read more](#)  
[Access all issues](#)

## Metadata collection

Floods Working Group would like to get a worldwide overview of the existing (published) flood records based on historical or natural archives.

This metadata collection will serve:

- to promote all these records to a broad community (through the FWG website);
- as a first step for the database project of the FWG; and
- as a basis for a review paper on flood reconstructions.

To promote your record(s), please take a few minutes to provide very basic metadata on flood records you produced using [this csv file](#).

Details on the different entries in the file are described [here](#) (pdf). Examples are also given in the file.

Once filled in, please send the new, saved file to Lothar Schulte: [schulte@ub.edu](mailto:schulte@ub.edu) and Juan A. Ballesteros: [juan.ballesteros@unige.ch](mailto:juan.ballesteros@unige.ch)

Please feel free to transfer this request to any colleagues who might be interested.

## Global overview of existing historical and palaeoflood records

This global overview aims at collecting all existing (published) flood records based on the study of historical or natural archives. This will be used:

- As a first step for the database project of the [Floods Working Group](#),
- To publicize all historical and palaeoflood records through the [FWG web page](#),
- As a basis for a [review paper](#) on flood reconstructions.

If you have published a flood record based on the study of any historical or natural archives, we kindly ask you to take a few minutes to fill some basic information in the attached excel file entitled "List\_overview\_flood\_records". Details on the different entries of the excel sheet are given below. Examples are also given in the excel sheet.

Once filled in, please send the excel file to: [Bruno.wilhelm@univ-grenoble-alpes.fr](mailto:Bruno.wilhelm@univ-grenoble-alpes.fr)

**1. Archives:** Please provide the type of archive studied to reconstruct the flood chronicle:

- Fluvial sediments
- Lake sediments
- Marine sediments
- Speleothems
- Tree rings
- Historical documents

**2. River:** Please provide the name of the river related to the flood record, e.g. Mississippi, Rhône, etc.

**3. Name site:** Please indicate the name of the study site along the river.

**4. Country:** Please indicate the country of the study site.

**5. Coordinates (Latitude / Longitude)**

Please provide coordinates (in degrees and minutes) for a single central location in the area of investigation.

**6. Format of start/end year:** Please indicate what is the format of start / end year, i.e. year AD, BC, BP.

**7. Start year and End year:** Please indicate the start year and the end year of the flood record.

**8. Flood magnitude:** Please indicate whether the flood record also informs about flood magnitude.

**9. Contact person:** Please provide full name and email of a contact person for this flood record.

**10. Reference:** Please provide the complete reference(s) of the article where the flood record is published.



# Floods WG Metadata Table

Site Name

Search archive by site name

Site Name	Country	River	Flood Magnitude	time period
Yukon River	USA/Canada	Yukon River	No	> 1000 years
Vistula River	Poland	Vistula River	No	> 10000 years
Peru	Peru	No Data	No	> 1000 years
Dawangzhuan	China	Yongdinghe River	No	> 10000 years
LMX_Longmenxia	China	Yiluohe River	Yes	> 1000 years
BZ_Beizhai	China	Yihe River	No	> 1000 years
CLJ_Chuanliujie	China	Yihe River	No	> 10000 years
JPC_Jinpingcun	China	Yellow River	Yes	> 1000 years
LHK_Lianghekou	China	Yellow River	Yes	> 1000 years
PDG_Pingduguan	China	Yellow River	Yes	> 1000 years
YHG_Mafentan	China	Yellow River	Yes	> 1000 years
MFT_Mafentan	China	Yellow River	Yes	> 1000 years
Xiaolangdi Reach	China	Yellow River	Yes	> 1000 years
JZ_Jiazha	China	Yarlung Zangbo River	Yes	> 1000 years
GJC_Guojiachuan	China	Yanhe River	Yes	> 1000 years
LGZ_Leigongzui	China	Yangtze River	No	> 1000 years
Yidu	China	Yangtze River	No	> 1000 years
YD0901	China	Yangtze River	Yes	> 1000 years
Cross Section G002	China	Yangtze River	Yes	> 10000 years
Yuxi	China	Yangtze River	No	> 1000 years
Zhongba	China	Yangtze River	No	> 1000 years
Sandouping	China	Yangtze River	Yes	> 1000 years



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Home / Brienzwiler

## Brienzwiler

**Country:** Switzerland

**Archive Type:** fluvial sediments

**Main Reference(s):** Schulte, L.; Pena, J.C.; Carvalho, F.; Schmidt, T.; Julia, R.; Llorca, J.; Veit, H, 2015. A 2600-year history of floods in the Bernese Alps, Switzerland: frequencies, mechanisms and climate forcing. Hydrology and Earth System Sciences 19, 3047-3072.

**River:** Hasli-Aare River; Core AA-10

**Time Period:** > 1000 years

**Flood Magnitude:** Yes

**Office**

PAGES International Project Office

University of Bern, Main Building

Hochschulstrasse 4

3012 Bern

Switzerland

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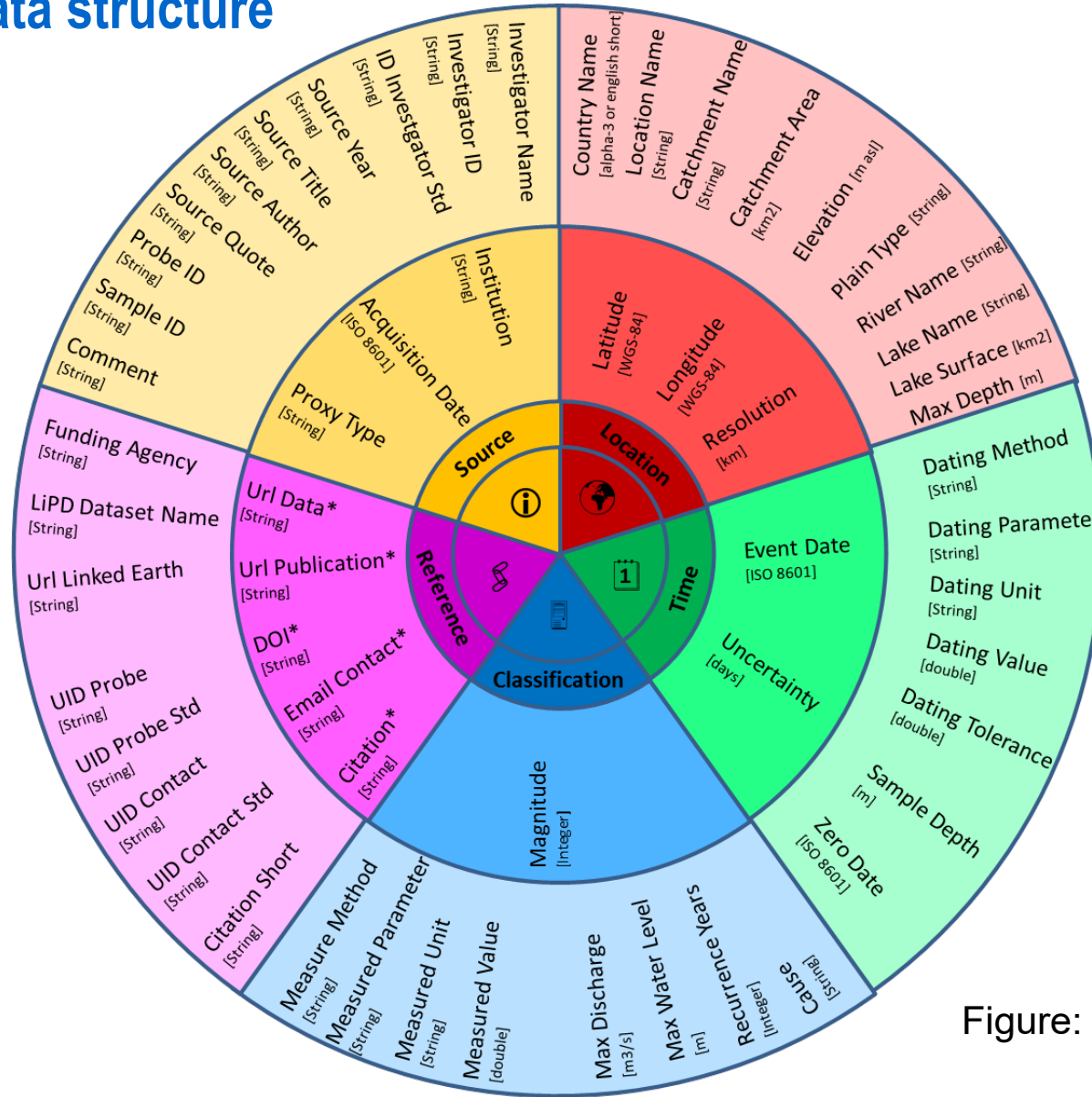


**PAGES FWG Annual Meeting 2024**

<https://pastglobalchanges.org/science/wg/floods/intro>



# Common data structure



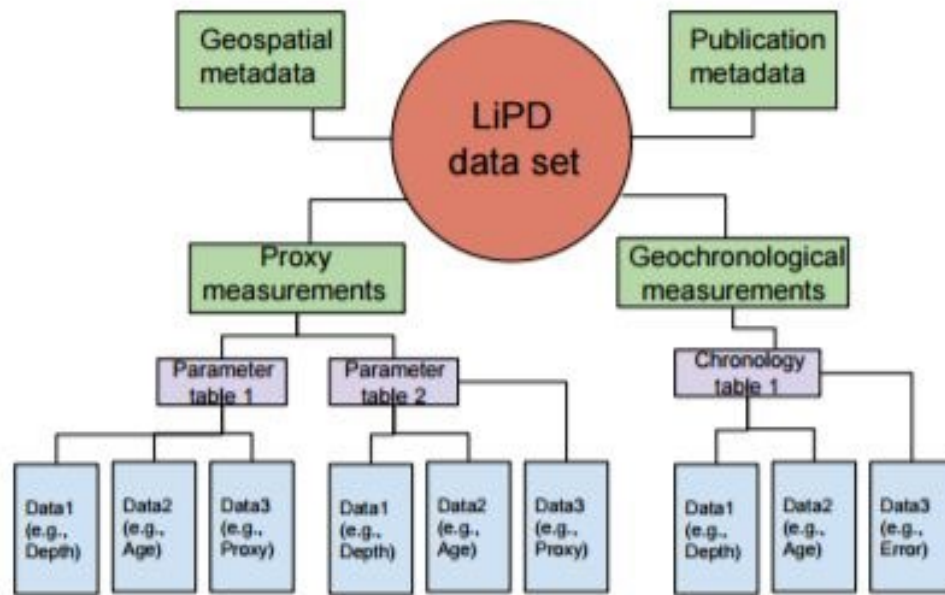
## Clusters

- ? : Source
- ? : Location
- ? : Time
- ? : Classification
- ? : Reference

Figure: Michael Kahle (2017) White Paper

# Data Format: LiPD

Mixture of json and csv files in zip



<https://doi.org/10.5194/cp-12-1093-2016>

N. P. McKay and J. Emile-Geay

Advantage

- Covers: Sediments, Speleothems, Tree rings, Measurements on fixed points, ...
- Well established file format with tools available
- Fine structured

BUT - Enhancements needed for

- Historical documents
- Standardize column names & Units

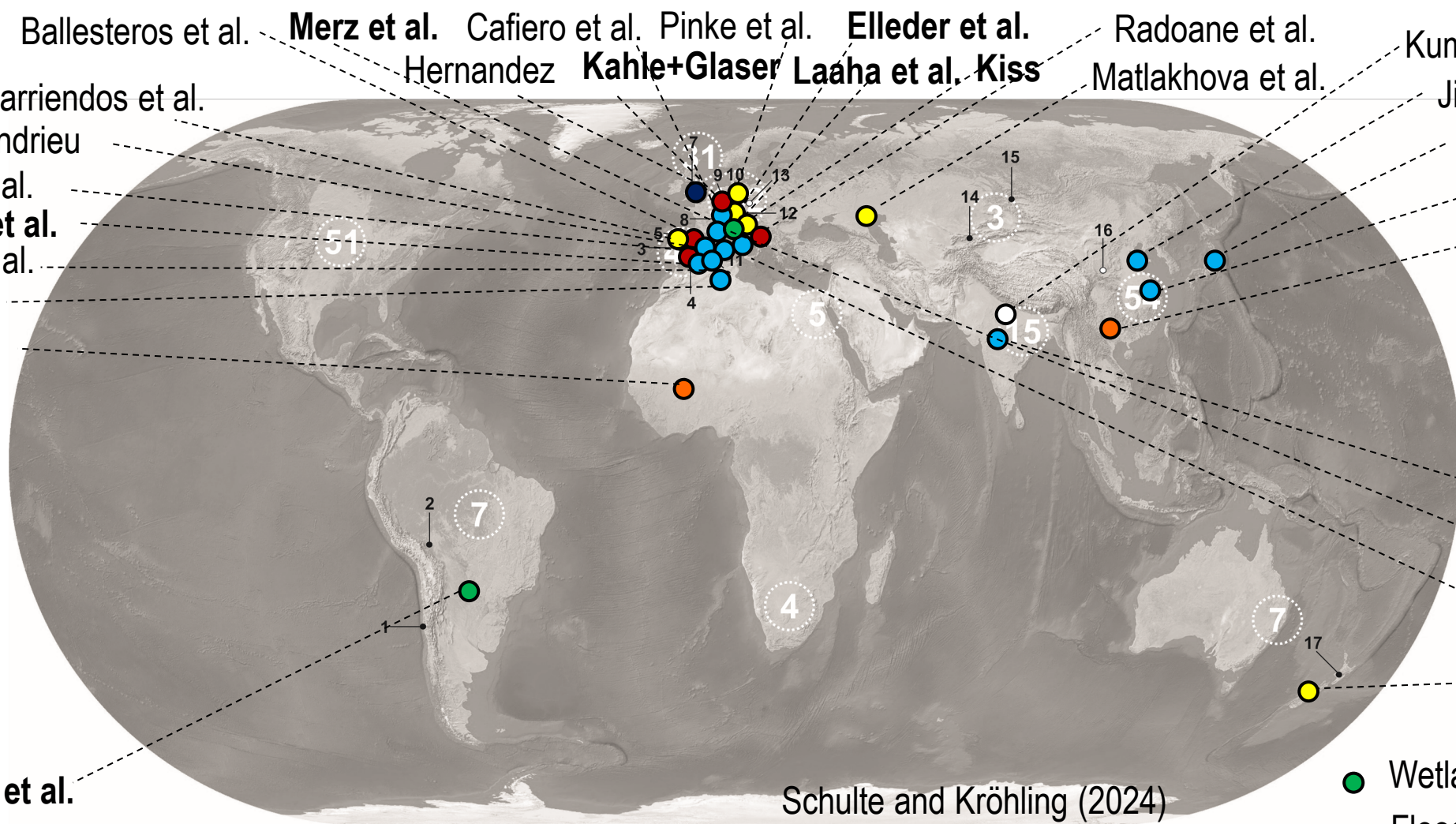
# Proposed Activities

## 2024 (1<sup>st</sup> year)

- April 2024: Session EGU24 ITS2.9/CL0.1.10/ HS2.4.1, Vienna. “Flood trends in cultural riverine landscapes: space-time dynamics, patterns, controls, and attribution” sponsored by PAGES
- April 2024: Annual Floods WG Meeting; Splinter Meeting at the EGU 2024, Vienna (L. Schulte; D. Kröhling; J.A. Ballesteros).
- New call for contribution for the Open-access **flood metadatabase**. Strong engagement of Asia, South America, Africa, Australia and New Zealand.
- Pilot studies will be conducted in test regions to investigate flood forcing from the **preindustrial period to the Anthropocene**.
- Engagement with local to **national stakeholders** throughout key related projects
- **Special Issue** “Temporal and spatial flood patterns under the effect of global changes”



**EGU2024**  
**Session ITS2.9**  
**29 papers**



Ballesteros et al. Merz et al. Cafiero et al. Pinke et al. Elleder et al. Radoane et al. Kumar et al.  
 Balasch, Barriendos et al. Hernandez Kahle+Glaser Laaha et al. Kiss Matlakhova et al. Jian+Liu  
 Moussa+Andrieu Farguell et al. Carvalho et al. Ciccone et al. Hunt et al. Dembele Sayama et al.  
 Guo et al. Ai et al. Berghuijs et al. Prakash+Saharia  
 Kozma et al. Alexopoulos et al. Schulte et al.

**Cello et al.**

Schulte and Kröhling (2024)

- Historical and epigraphic data
- Multi-archive flood data
- Contemporary and instrumental data

- 1—● Flood records mainly from natural archives
- 4—○ Mainly from documentary archives
- 9—○ From natural and documentary archives
- 8 Number of flood series FWG metadatabase

**Paleofloods VSI 2020**

- Wetland management
- Flood and catchment components
- Cultural evidences
- Atmospheric drivers



# Global and Planetary Change

Supports open access

8.2  
CiteScore

3.9  
Impact Factor

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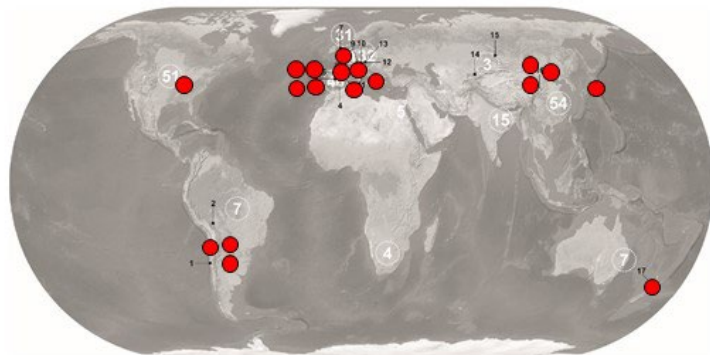
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L. Schulte, et al. Global and Planetary Change 177 (2019) 225–238



- 1 → Flood records mainly from natural archives
- 4 → Mainly from documentary archives
- 8 → From natural and documentary archives
- 8 Number of flood series FWG metadata base

Temporal and spatial flood patterns under the effect of global changes. How multi-archive evidences help to overcome our lack of imagination and identify the unknown unknowns.

Guest–Editors: Lothar Schulte, Juan I. Santisteban, Ian C. Fuller, Juan A. Ballesteros-Cánovas

**Deadline: 31.07.2024**

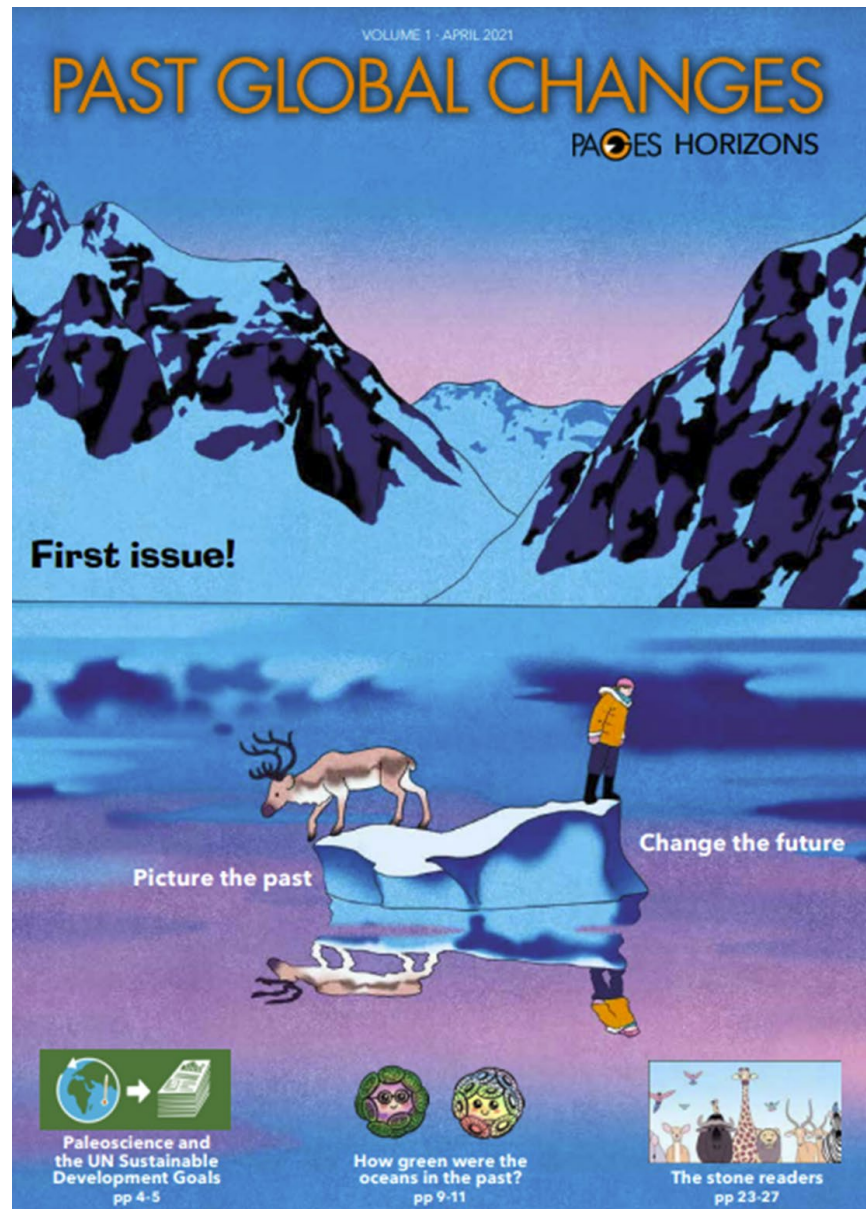
Contact: [schulte@ub.edu](mailto:schulte@ub.edu)

**12 submitted papers**

5 published

7 under review

**7 papers in preparation**



For future  Generations:



FLOODS WORKING GROUP

## Pages Horizons

Juan Antonio Ballesteros Canovas et al. (Edit.)

# Proposed Activities

## 2025 (2<sup>nd</sup> year)

- Developing **pilot studies** to identify benefits of **paleofloods in DRR**, in particular in mountain environments (Swiss Alps, Ordesa-Monte Perdido National Park, Spanish Pyrenees).
- Organization of a **Flood Working Group Mid-term workshop** at Prague, Barcelona or Berne with focus on i) cutting-edge methods and innovative techniques, ii) statistical time-space analysis of the flood variability and propagation and iii) evidences for the historical floodplain development toward the Anthropocene.
- **Fieldworkshop** for Young Scientists in the Bernese Alps
- Ongoing activities



# Proposed Activities

## 2026 (3<sup>rd</sup> year)

- Organization of a **Flood Working Group Session and Meeting** at Christchurch
- **PAGES Special Volume** Highlights advance multi-archive paleoflood reconstruction reflecting the efforts of the Floods Working Group.
- **PAGES Magazine issue** on Floods, to communicate the main achievements of the WG in an accessible and informative style.
- Launch of the next **PAGES Working Group** but with a new focus, title and Group Leaders

# Announcement: PAGES Open Scientific Meeting May 2025



Sign In

- Home
- Committee
- Registration
- Program
- Field Trips
- Logistics
- Sponsoring & Exhibition
- About

## PAGES 2025

Shanghai, China

7th Open Science Meeting, 21-24 May 2025

5th Young Scientists Meeting, 19-20 May 2025

Earth System Changes from the Past towards the Future



OSM  
Registration



YSM  
Registration



Abstract  
Submission

Day  
403

Hour  
13

Min  
55

Sec  
51

### Important Dates

1 Dec 2023

Call for session proposal

15 May 2024

Deadline for session proposal

### News & Events



PAGES 7th Open  
Science Meeting  
Call for Sessions is  
Open

17 Jan 2024

# Announcement: Conference on Geomorphology Feb. 2026



Nau Mai, Haere Mai – Welcome!

We look forward to welcoming you to Christchurch New Zealand for the International Conference on Geomorphology in 2026. Tectonically-active, in the 'Roaring 40s' and geologically-young, Aotearoa New Zealand offers world-class geomorphology with some of the world's fastest rates of uplift and erosion.

[Meet the Local Organising Committee](#)

**100% Pure New Zealand: A Welcoming Journey**

**Welcome to Ōtautahi Christchurch**

A warm welcome awaits you in our city, a place of greenery, contemporary and classic architecture, scenery and space. Ōtautahi Christchurch has been rebuilt and reimagined; Venues are world-class, flexible, and uber-modern. Hotels and accommodation are conveniently close to both venues and hospitality, none more than 10 minutes from each other. All in a spacious and updated city centre designed not just for cars, but humans.

Our city is filled with green spaces, cycle lanes, and precincts reserved for pedestrians (and the occasional tram). We were voted one of the friendliest cities in the world back in 2019, so expect a wave and a smile (perhaps from the tram driver).

We're connected to the world by an international airport and bustling seaport, and the highways that criss-cross the South Island largely convene here.

We are at the heart of the unforgettable South Island, an island absolutely stacked with pre and post activities and destinations. It's on the bucket list for a reason!

**We look forward to welcoming you and your delegates to our city.**

[Your Host, Christchurch - Learn More](#)

**Local organising Committee of IAG Conference:**  
Ian Fuller, Sam McColl, Sarah McSweeney, James Shulmeister, James Brasington

**Geomorphology in New Zealand**  
• Tectonically-active, in the 'Roaring 40s'; geologically-young;



## KEY DATES:

<b>Call for Sessions/Workshops Open:</b>	<b>July 2024</b>
<b>Session/Workshop Submission Deadline:</b>	<b>20 September 2024</b>
<b>Session/Workshop Acceptance Notification:</b>	<b>29 November 2024</b>
<b>Abstract Submission Open:</b>	<b>3 February 2025</b>
<b>Registration Open:</b>	<b>3 March 2025</b>
<b>Abstract Submission Deadline:</b>	<b>31 May 2025</b>
<b>Authors Acceptance Notification:</b>	<b>30 August 2025</b>
<b>Early Registration Deadline:</b>	<b>27 September 2025</b>



**ANZGG**  
AUSTRALIAN & NEW ZEALAND  
GEOMORPHOLOGY GROUP





Thank you!

