

**Titre du projet : Cross community workshop on past flood variability**

*Volet : International*

*Porteur du projet : Bruno Wilhelm*

*Laboratoires impliqués : IGE*

## Bilan du projet

### Cross community workshop on past flood variability

### PAGES Floods Working Group



Photo des participants au workshop (photo par Libor Elleder)

## **Bilan d'activité** (1 page max)

The workshop was successful according to the very positive feedback of 47 participants from 16 different countries ([list available here](#)). A total of 24 talks and 11 posters have been presented. In addition numerous working perspectives (cf. database, publications and upcoming projects) were developed and discussed. One major comment from the workshop participants is that this working group is the first place that gathers all communities working on past floods. This offers a unique consortium of experts in the field of 'flood hydrology of the past', making the working group promising to move a step forward in this field. Two points that still require an effort in the organization of such events are the participation of more female scientists and more scientists from Africa, South America and Australia.

### **1. Database**

Following sub-group and plenary discussions, all participants agreed:

- to create a common and homogenized database compiling all past flood information, i.e. from all (historical and natural) archives, Visit this [web page](#) to get an overview of the metadata collected since the workshop.
- to start the database creation by sub-groups, i.e. archive per archive. The work of the subgroups will be coordinated to avoid archive-specific databases as the final aim is to make all the data comparable,
- to start in a simple and efficient way, only metadata or very simple data will be collected (e.g. location, timing and magnitude of past floods).

The final format (e.g. LiPD - <http://linked.earth/>, etc.) and the site for the long-term storage will be defined when the preliminary database will be created.

### **2. Publications**

Different possibilities of papers were discussed according to the goals we would like to achieve, i.e. publicizing the FWG to other communities like modelers, hydrologists, etc. and/or to stakeholders, engineers and risk managers. Following this discussion a meeting report has been published in EOS (see list of publication below). A White Paper, which defines the goals and strategy of the group for the coming years, has also been written and very recently published on the PAGES web site ([link here](#)). Finally, we are working on a review paper based on this preliminary discussion.

### **3. Upcoming projects**

Three projects came up from discussions between participants during the workshop.

- a. Methodological developments for multi-archive analysis of past flood variability

Combining datasets from different archives is still challenging. This project would contribute to the development of a methodological approach to uniform the datasets, making data acquired from different archives comparable. A concept note outlining this project should be proposed to FWG members in October.

b. List of relevant publications on flood reconstruction and analysis

An effort should be undertaken to list all publications related to flood reconstructions and analysis. See for instance what is done in the PAGES Varves WG: <http://pastglobalchanges.org/ini/end-aff/varveswg/varve-related-publications>. This list will serve as a basis to identify all available / published data that could be collected for the database. This list may also highlight methodological papers on flood reconstructions, statistical analysis of flood frequency/magnitude, etc.

c. Review publication on flood reconstructions from lake sediments

Over the last years, many approaches have been developed to reconstruct the past flood variability from lake sediments. This project would aim at gathering 'key researchers' of this topic to review these approaches and propose common 'guidelines' for future studies in this field. A workshop could be organized within the next year to perform this project.

## Illustrations

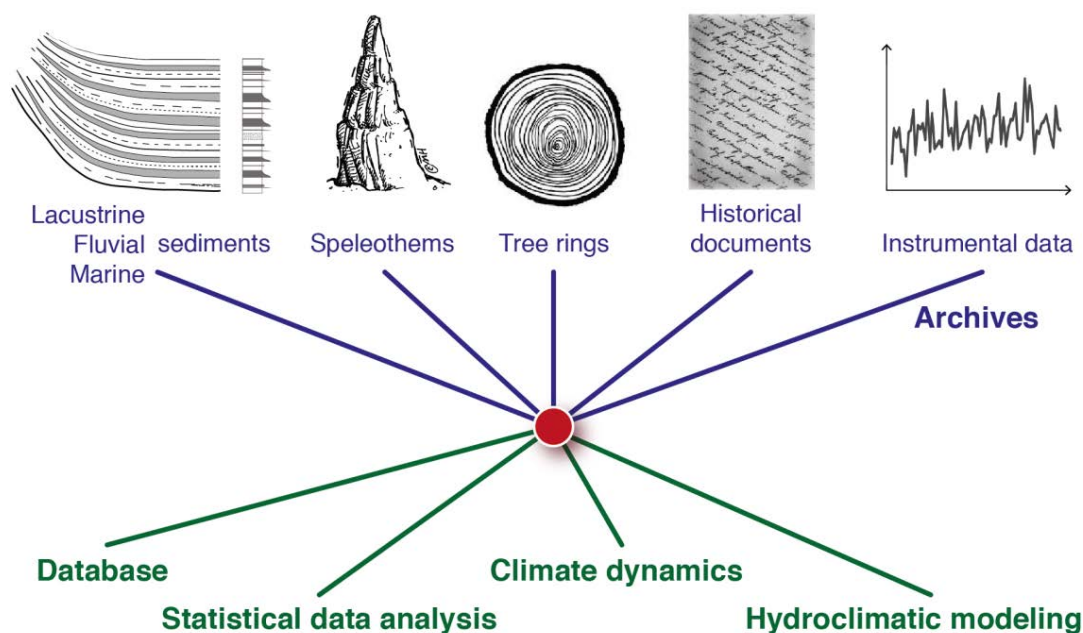


Illustration schématique du concept et des objectifs du PAGES Floods Working Group. Les données sur les crues passées seront collectées à partir d'une variété d'archives naturelles, intégrées dans une base de données puis analysées et interprétées à partir d'outils statistiques et de modélisation.

## Production scientifique (articles scientifiques, actes de congrès...)

- Wilhelm B. and Ballesteros-Cánovas J.A. (2016) A cross-disciplinary initiative to analyze past floods, PAGES Magazine 24(2), 76 – [PDF téléchargeable](#)
- Swierczynski T, Ionita M & Pino D (2017) Using archives of past floods to estimate future flood hazard. EOS, vol. 98 – [article ici](#)

**Bilan financier succinct** (avec suivant les cas : co-financements éventuels, équipements achetés, missions, recrutements divers, fonctionnements divers...)

**Recettes – co-financement**

Source de crédit	Recettes (€)
PAGES conference support	11 000 (12k US\$)
EGU Galileo Conference	2 000
Labex OSUG@2020	6 900
INP-UJF	500
<b>Total</b>	<b>20400 €</b>

RECETTE / ORGANISME	MONTANT	DEPENSE / MONTANT	DESIGNATION
UGA LABEX OSUG2020	6900 €	1215.30 €	RECEPTION 28/06
		1875.50 €	PAUSE 3j. WORKSHOP
		2640 €	REPAS 3j. WORSHOP
		349€	FRAIS SCOTT ST GEORGE
TOTAL UGA OSUG2020		5899.80	
PAGES (12000\$)	11000€	9110.97€	BOURSEs ETUDIANTs
TOTAL PAGES		9110.97€	
TOTAL BUDGET	17900€	<b>15010.77€</b>	

**Annexes si besoin ou lien sur des sites existants et pérennes jusqu'à la fin du Labex (2020)**

Lien vers le matériel post-workshop (programme, flyer, livre des résumés liste des participants, compte-rendu, vidéos des présentations, posters, etc.) : [voir ici](#)