

# From 1910 to 2010 : Towards a new Flood in Paris?

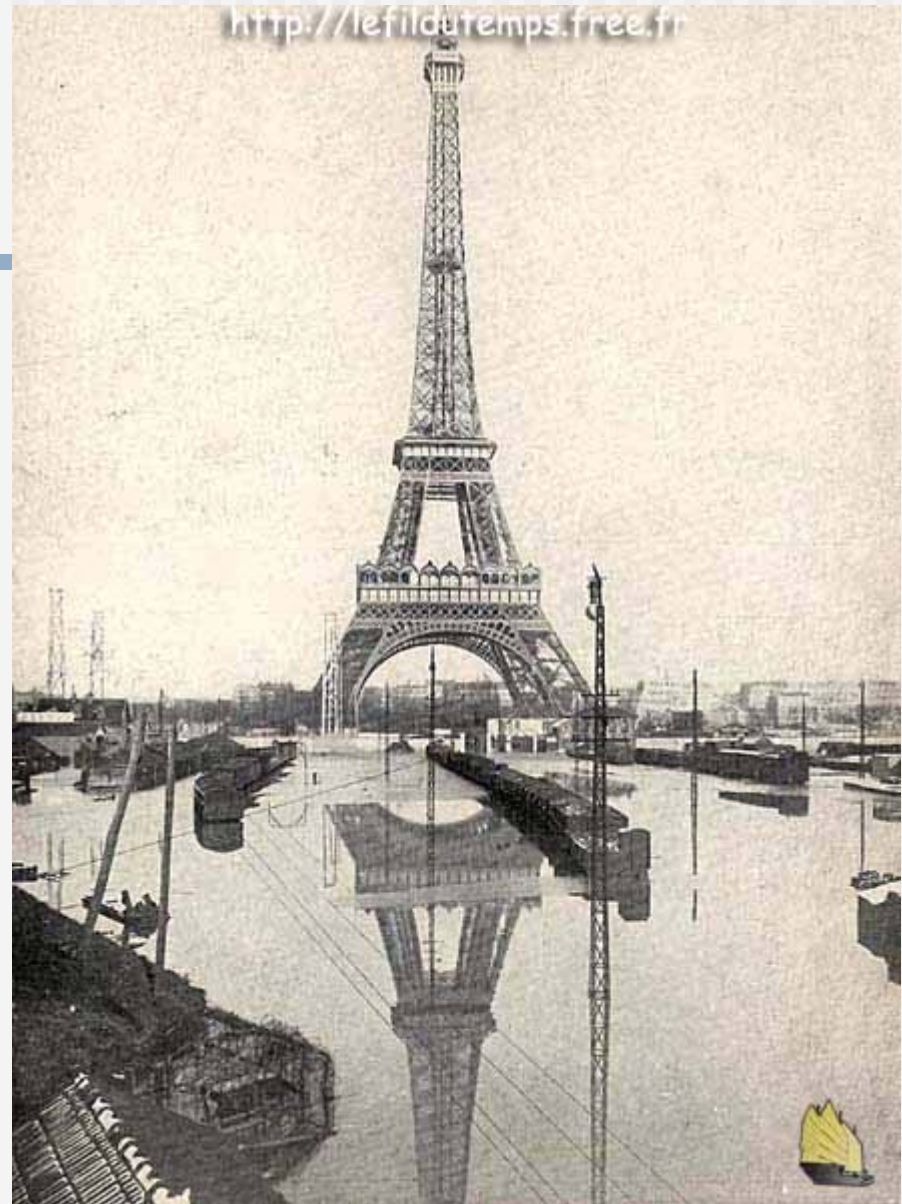
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A STUDY CASE  
AT SCHOOL



Eiffel Tower Today...

# Eiffel Tower in 1910

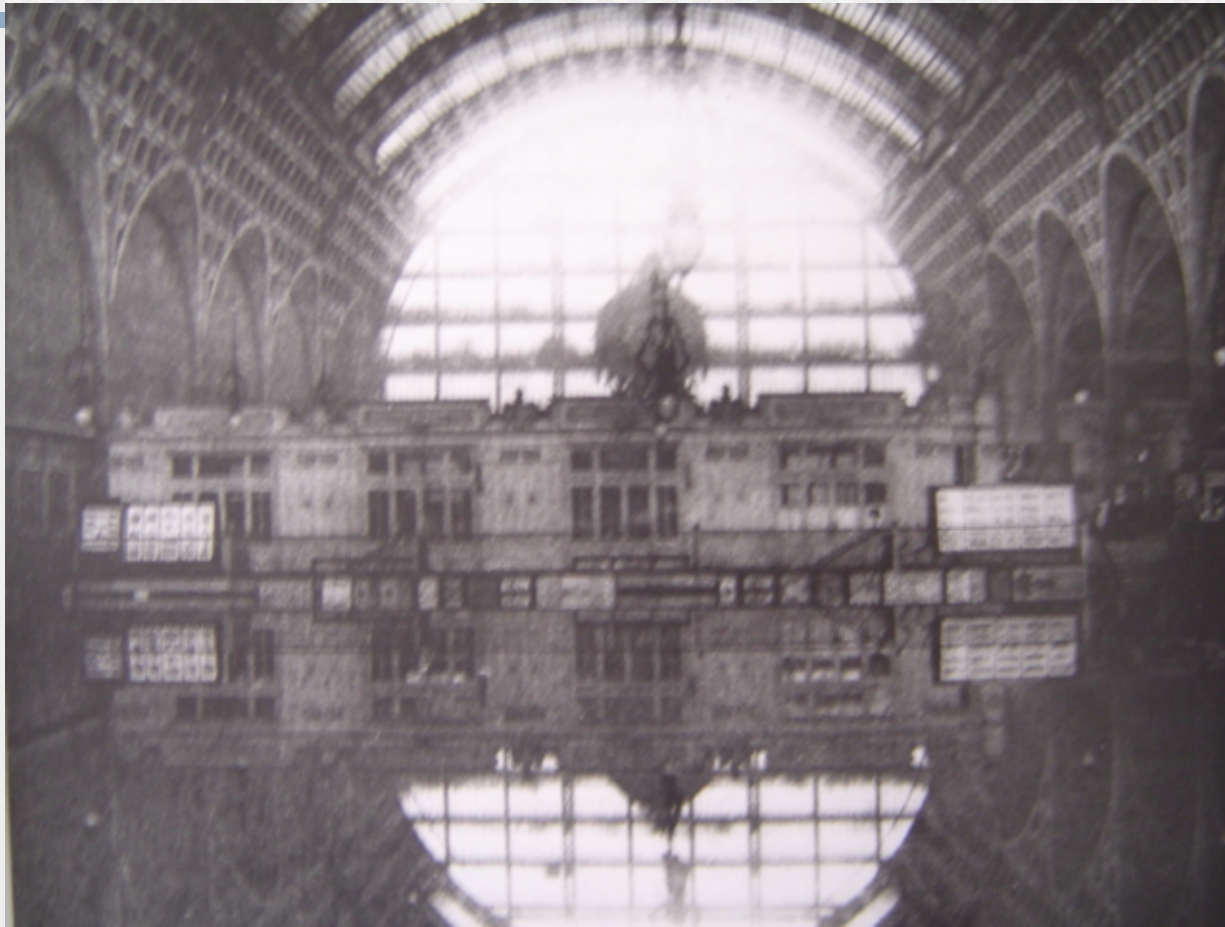


# Orsay Museum, Today...

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# Same place, 1910



# Walking in Paris, 1910

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# Paris experienced floods in the past...

## Biggest floods before modern era

<b>Winter 358-359 A.C.</b>	<b>During Julian the Apostate government</b>
<b>582 A.C.</b>	<b>Described by Gregoire de Tours</b>
<b>1296</b>	<b>Paris bridges destroyed by the river</b>
<b>1658</b>	<b>Biggest flood ever known in Paris History: 8.96 m</b>

# Paris experienced floods in the past...

## Floods over 6.5 m

	Between 6.5 and 8 m	> 8 m
Feb 27 <sup>th</sup> 1690	7.7 m	
March 5 <sup>th</sup> 1711	7.7 m	
Dec 26 <sup>th</sup> 1740		8.05 m
March 23 <sup>rd</sup> 1751	6.8 m	
Feb 9 <sup>th</sup> 1764	7.4 m	
March 4 <sup>th</sup> 1784	6.8 m	
Feb 1799	7.6 m	
Jan 28 <sup>th</sup> 1802	7.6 m	
March 3 <sup>rd</sup> 1807	6.8 m	
March 13 <sup>th</sup> 1817	6.4 m	
March 18 <sup>th</sup> 1876	6.6 m	
January 29 <sup>th</sup> 1910		8.62 m
January 5 <sup>th</sup> 1920	6.6 m	
January 6 <sup>th</sup> 1924	7.3 m	
Feb 16 <sup>th</sup> 1945	6.8 m	
Jan 23 <sup>rd</sup> 1955	7.1 m	



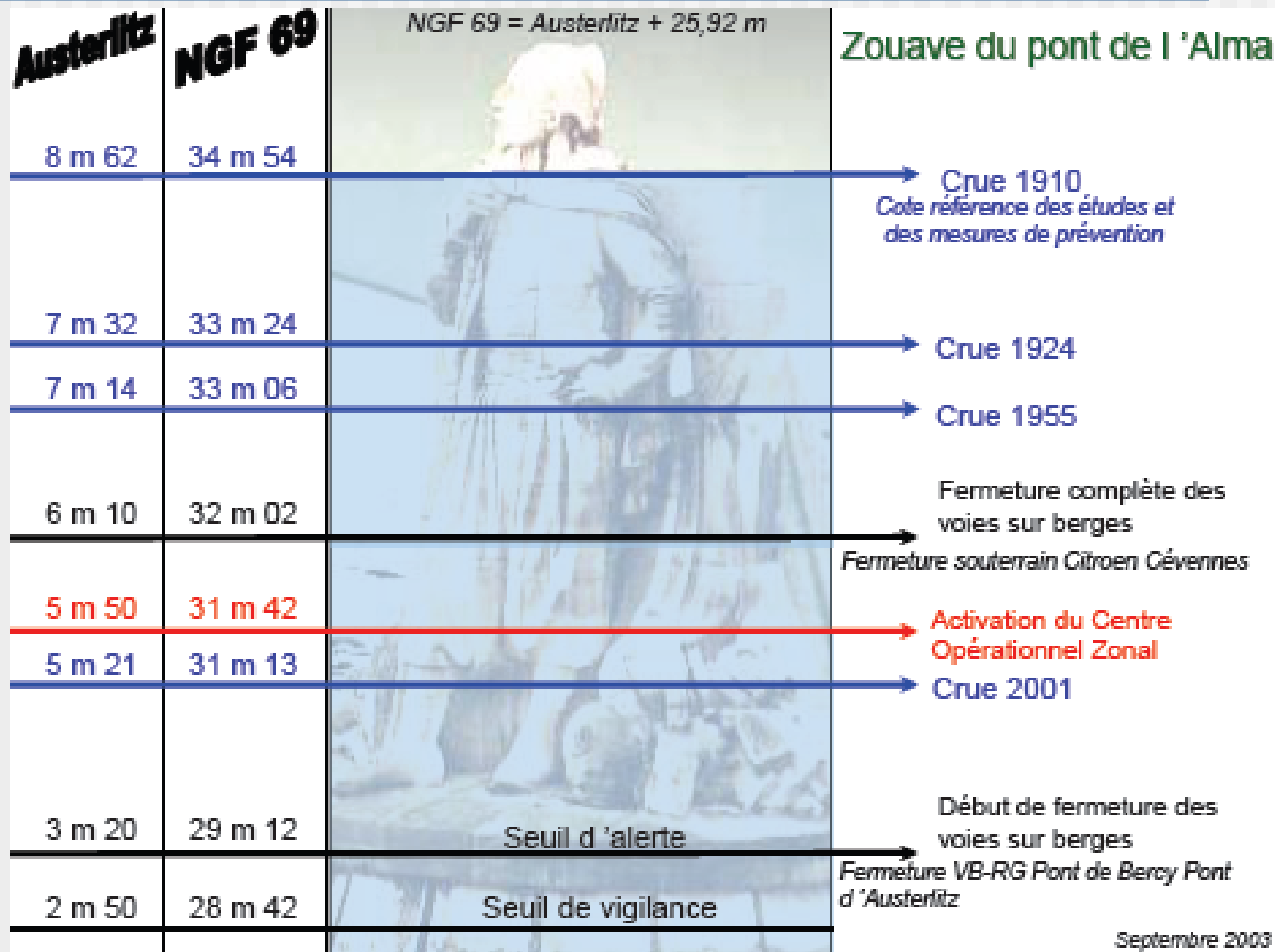
# The River in January 1910

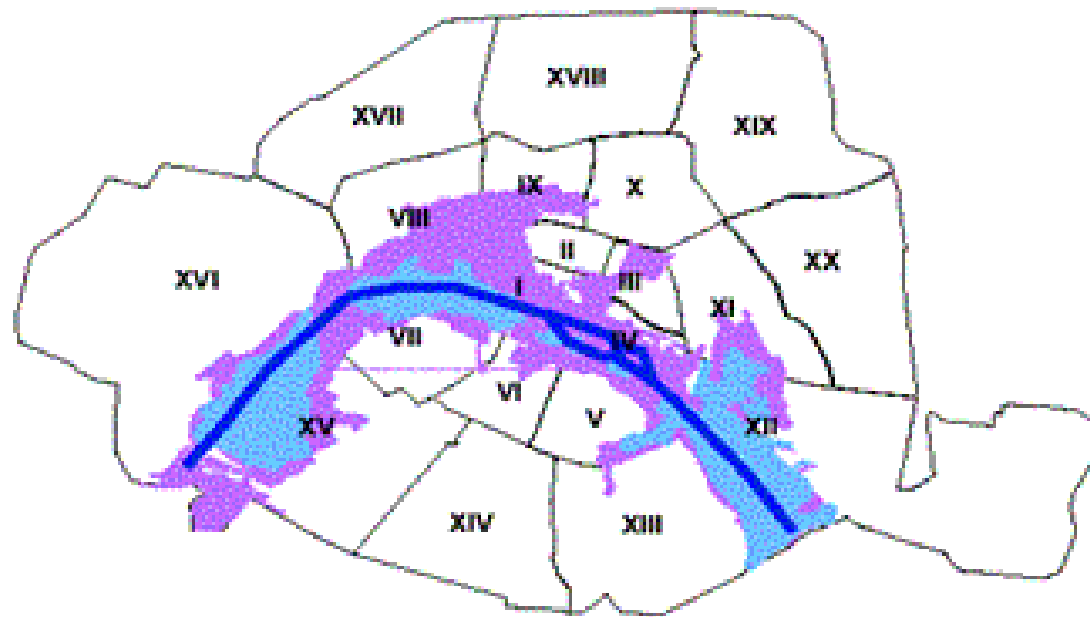
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



The « Zouave » of the Alma Bridge (Pont de l'Alma) in 1910.

# How to measure the height of floods?





-  Zone d'inondation des voies
-  Zones d'inondation des caves

Source : Plan Boreux de la crue 1910 (Rapport Proard) :

These areas could be under water

# And Paris will experience new floods in the future...

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*"An overflow of the Seine comparable to 1910 has gradually faded from our collective memory, but we cannot ignore the reality of such a risk this winter or in future winters."*

J.J. AILLAGON, former ministry of Culture (2002)

# Preventive measures

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- Knowledge of the Risk
- Monitoring and Alert
- Information and Education
- Integration of Data in Urban development
- Works for Prevention of Vulnerability
- Crisis Management
- Aftermaths of the experience



# YOUNG REPORTERS FOR THE ENVIRONMENT

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## **Teachers and pupils in a field project !**

Young Reporters for the Environment (YRE) is a programme of the Foundation for Environmental Education designed for secondary school pupils and teachers.

Each group must define its own investigation project about a local environmental.

There are 6 main investigation topics : Agriculture, cities, coastline, energy, waste, water. The goal of each project is always to communicate relevant information to a local public.



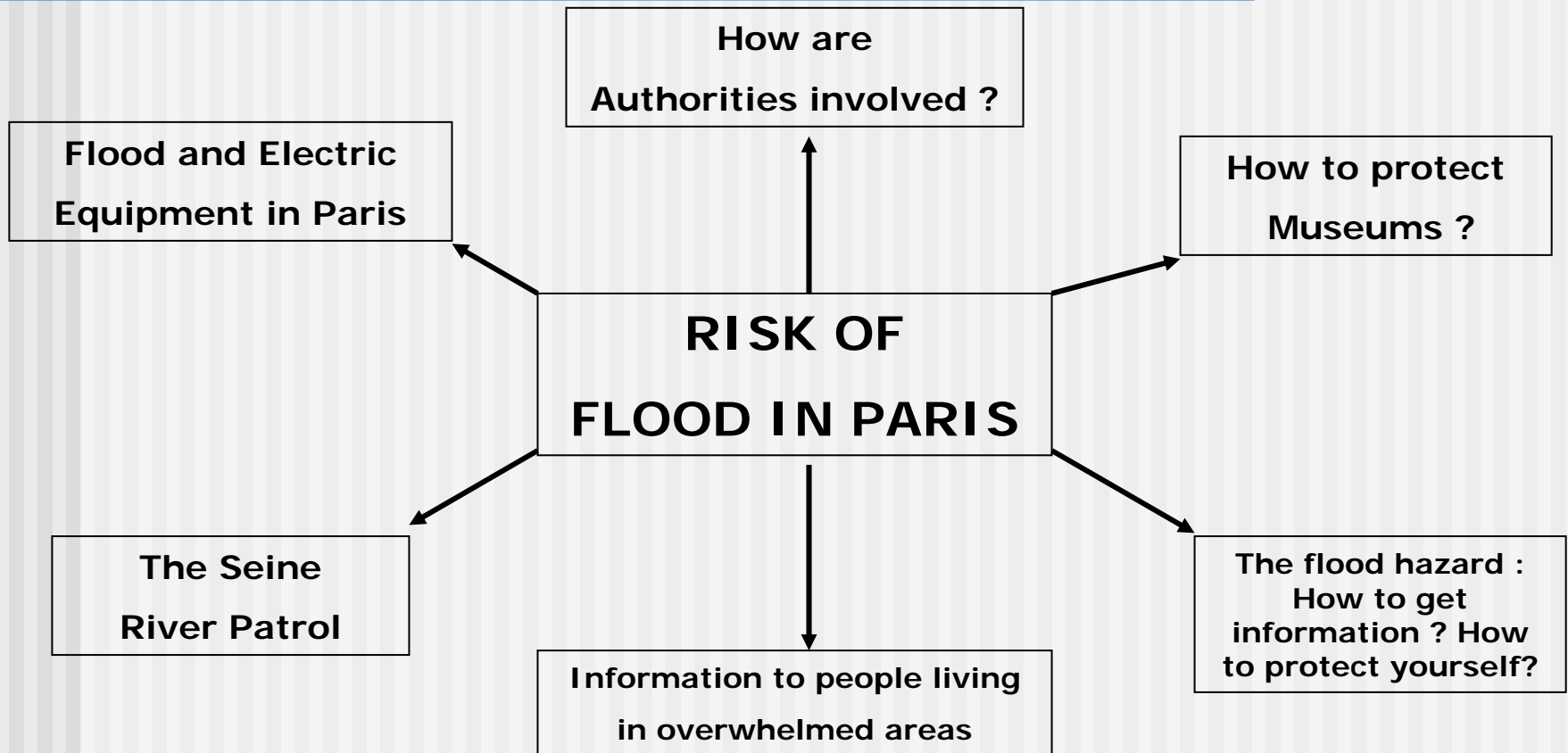
# YOUNG REPORTERS FOR THE ENVIRONMENT

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- Documentation
- International Cooperation via Internet
- Reporting of activities
- Publishing articles and photos
- Newsletters
- Missions and Awards

# My Students' investigation topics

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# Knowledge of the risk : excerpt of a student work

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*“A flood results when a stream runs out of its confines and submerges surrounding areas.*

*Floods are a natural consequence of stream flow in a continually changing environment. During stage period, the river overflows of the minor bed and floods the banks.*

*In the tempered climates, the normal stages of a river may be amplified if abundant rains affect the water collecting areas of the river and their affluents. This was what happened to the Seine in 1910.”*

# Information and education : another excerpt

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## *Advices to inhabitants living in flooded zone or potentially without power:*

- 1. Have a FM battery radio in order to listen to the orders given by the public services.*
- 2. Have torches: you could move even if there's no power.*
- 3. Remove all the objects situated in your cellar.*
- 4. Always follow the orders given by the authorities, particularly in case of evacuation.*

# To inform People to increase the Culture of Risk

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The Memory of Risk

Education and Training about Risks

# Who will be directly informed ?

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- Young Reporters for the Environment
- French Websites
- Parisian Schools
- Other Students in Europe (Leeds UK, Palermo Italy)

# Fluctuat nec Mergitur ?

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