

The Music of Water Benjamin Renard, Chloé Le Bescond

▶ To cite this version:

Benjamin Renard, Chloé Le Bescond. The Music of Water. EGU General Assembly 2022, May 2022, Vienna, Austria. 10.5194/egusphere-egu22-9759. hal-03710340

HAL Id: hal-03710340 https://hal.science/hal-03710340

Submitted on 30 Jun 2022

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers. L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



Distributed under a Creative Commons Attribution 4.0 International License

The Music of Water

B. Renard^{1,2} Chloé Le Bescond²

¹INRAE, RiverLy Research Unit, Lyon, France

²INRAE, RECOVER Research Unit, Aix-en-Provence, France

EGU General Assembly, 25 May 2022









Making music from hydrological data

- - Data values → note properties (pitch, volume)
 - Very similar to data visualization
- Step 2: musical arrangement
 - Move from sound to music
 - Play with tempo, rhythm, harmony, etc.
- Step 3: music video
 - Data animation

Objective: science communication

- Engaging starting point to present scientific concepts or results
- Add emotional content to the story told by the data



R Brakenridge, "Global Active Archive of Large Flood Events", Dartmouth Flood Observatory, University of Colorado http://floodobservatory.colorado.edu/Archives/index.html, accessed 06 June 202

1. The Basics of Hydrology



2. Antarctica



3. El NiñOz



Thank you!



More videos at:

https://globxblog.inrae.fr/

https://vimeo.com/user113807574

Interactive apps:

INRA

https://hydrosoundscapes.recover.inrae.fr

https://hydroapps.recover.inrae.fr/au-son-des-rivieres



This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Sklodowska-Curie grant agreement <u>No 835496</u>