

FloodDAM

WG Disasters: Flood pilot session

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WG Disasters 17 (virtual) 15, 16, and 17 March 2022





FloodDAM



SCO project: https://www.spaceclimateobservatory.org/flooddam-garonne



Objectives: building an automated service to reliably detect, monitor and assess flood events globally.

Flood Detection, Alert and rapid Mapping

Partners:











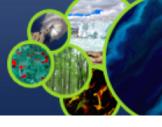


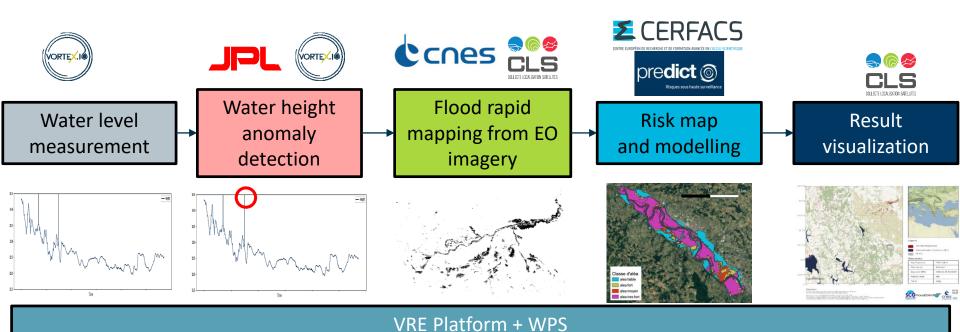


Dates: 09/2020 → 03/2022



FloodDAM actual pipeline



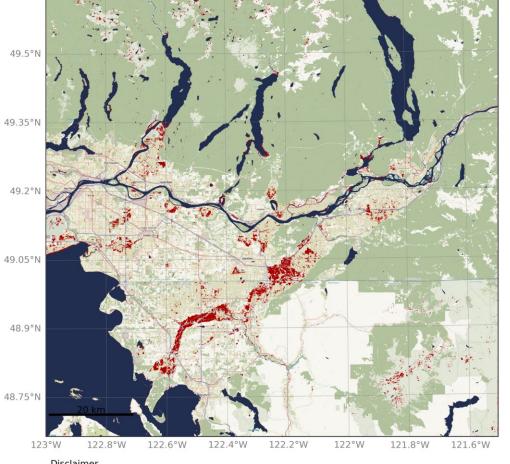






FloodDAM result:

Example in Vancouver, CANADA November 2021



Disclaimer

- This map is derived automatically using the FloodDAM Rapid-Mapping (FloodML) tool. More info: https://www.spaceclimateobservatory.org/flooddam-garonne
- How to cite this map: FloodDAM Rapping (6 CNES-CLS-CS, 2019-2021) Sufface Water Occurrence (GSW) data: Jean-Francois Pekel, Andrew Cottam, Noel Gorelick, Alan S. Belward,
 High-resolution mapping of global surface water and its long-term changes. Nature 540, 418-422 (2016). (doi:10.1038/nature20584)
 Fond de carte par Yohan Bonface & Humanitarian OpenSreetMap Team sous licence domaine public Cottam.



Legend

Estimated flooded areas

Permanent water (occurrence >50%) No data

Data source

EPSG:32610
Sentinel-1
013
2021-11-16 00:00:00
VV,VH
Majority filter r=2







FloodDAM - continuation

- **Duration: 18 months**
- Partners:















Objectives:

- Consolidation of the first FloodDAM achievements and improvements
- Introduction of new models/new sources, standardize resource interfaces
- Link with end-users with respect to risks and the finance sector
- Demonstration on a selection of test sites (TBD)