

Contribution of groundwater observatories to the monitoring of some key hydrodynamic and geochemical processes in the critical zone

Bruno Mougin, Yvan Caballero, Jean-Christophe Maréchal, Nadia Amraoui, Vincent Bailly-Comte, Jean-Baptiste Charlier, Laure Ducreux, Adrien Selles, Benjamin Lopez, Jérôme Nicolas, et al.

► **To cite this version:**

Bruno Mougin, Yvan Caballero, Jean-Christophe Maréchal, Nadia Amraoui, Vincent Bailly-Comte, et al.. Contribution of groundwater observatories to the monitoring of some key hydrodynamic and geochemical processes in the critical zone. The ILTER

LTER-France joint conference, Oct 2017, Nantes, France. 2017, <<https://rza.sciencesconf.org/>>. <hal-01581852>

HAL Id: hal-01581852

<https://hal-brgm.archives-ouvertes.fr/hal-01581852>

Submitted on 5 Sep 2017

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.



Call for presentations

October, 2nd – 4th 2017
Westotel Nantes Atlantique - 34 rue de la Vrière
44240 La Chapelle sur Erdre

Contribution of groundwater observatories to the monitoring of some key hydrodynamic and geochemical processes in the critical zone.

Yvan Caballero¹; Jean-Christophe Maréchal¹; Nadia Amraoui²; Jean-Baptiste Charlier¹; Vincent Bailly-Comte¹; Laure Ducreux³; Benjamin Lopez²; Bruno Mougin⁴; Jérôme Nicolas²; Adrien Selles⁵; Jean-Jacques Seguin²; Anne Winckel²

¹ BRGM Occitanie, 1039 rue de Pinville F-34000 Montpellier - France

² BRGM Centre, 3 avenue Claude Guillemin, 45060 Orléans – France

³ BRGM Guadeloupe, Parc d'activités de Colin - La Lézarde 97170 Petit-Bourg Guadeloupe – France

⁴ BRGM Bretagne, Rennes Atalante Beaulieu 2 rue de Jouanet 35700 Rennes – France

⁵ NGRI, Groundwater Building, Uppal Road Hyderabad 500606 - India

Corresponding author: y.caballero@brgm.fr

Session in which your presentation proposal fits*:

- Environmental risks

SUMMARY

Groundwater can represent a boundary condition for the dynamics of water into the critical zone. Groundwater level fluctuations influence several hydrodynamic and geochemical processes in the non-saturated zone such as, droughts and floods, rock-water interactions, surface water and soils quality, climate variability and change impacts... Several different types of groundwater observatories will be presented that allow the monitoring of some of these processes in different types of hydrogeological contexts over France, overseas and India. The data acquisition, storage and dissemination strategies and issues, and the scientific questions that can be explored using these observatories will be discussed.

KEYWORDS

Groundwater ; observatories ; data base ; rock-water interaction ; global change