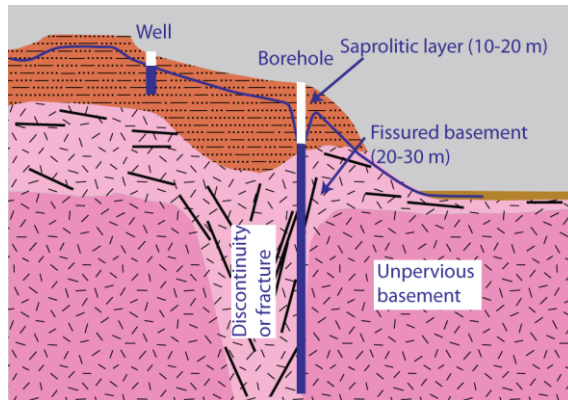


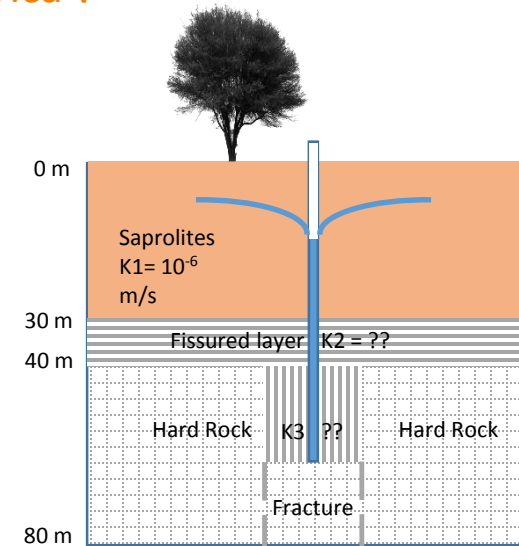
# GRAVIMETRIC AND LEVELING FOR BASEMENT AQUIFERS IN WEST AFRICA

Ferhat Gilbert<sup>1</sup>, Genthon Pierre<sup>2</sup>, Mouhouyoudine Ali Houmadi<sup>2-3</sup>, Hinderer Jacques<sup>1</sup>, Hector Basile<sup>5</sup>, Yameogo Suzanne<sup>4</sup>

**Topic :** how useful are gravimetry and leveling data during aquifer testing in basement aquifers, with special emphasis on West Africa ?



Theoretical modeling of  
 →  
 a simplified medium



**To recover the conductivities of the fissured medium K2 and K3**

- How useful are gravity data only (i.e. without any water level data) ?
- How useful are they when combined with leveling data ?
- How can they be combined with water level data ?