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[HUNZIKER Johannes C.](#), GALADIMA Souley Amadou, [PASTORELLI, Sabrina](#)

**Isotopic and hydrochemical investigations on the fluid regime of the Dallol Bosso, Niger**

The combined use of field geology, chemical analyses and stable isotopes of oxygen and hydrogen helps to characterize and to quantify the water resources of the Dallol Bosso, Niger. These resources for an arid area as the Sahel zone are of primary importance. In this context questions like water volume and quality, as well as recharge mechanisms are addressed. Finally recommendations for a sustainable management of the water resources are proposed.

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