



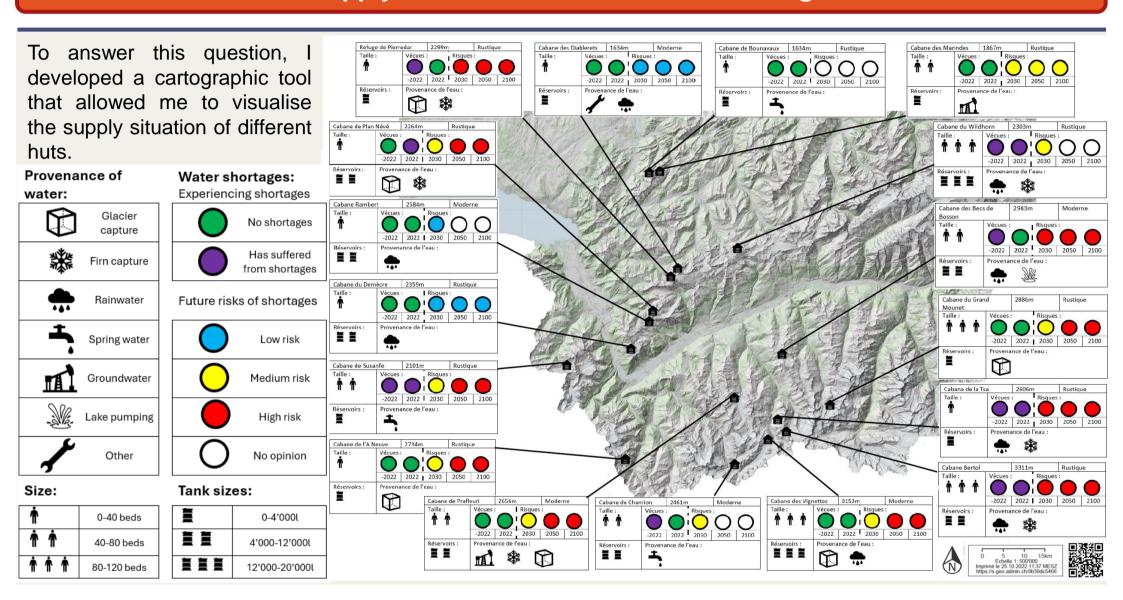
Water Supply in Alpine Environments

Analyzing Climate Change-Driven Challenges and Opportunities Based on Mountain Huts in French-Speaking Switzerland

Corentin Chofflon

Global warming is changing mountain environments and weather patterns. Glaciers are retreating, eternal snows are becoming rarer, periods of drought are getting longer and stormy weather is becoming more frequent. At the same time, mountain huts are consuming more water because of the large number of people visiting them.

What about the water supply situation in mountain huts during the summer season?



Glacier capture	No problem at all Melting glaciers release large quantities of water.	Spring water	Variant Depending on the size and characteristics of the aquifer.		What are the current and possible solutions?					
					Consum- ption	Ť	Restricting the use of		Limiting accommoda	
Firn capture	Problematic	Lake pumping	No problem at all A lake is a large natural reservoir.	ز	ပ္ပံ –	11	water		tion capacity	
	Firn are less voluminous and melt at the beginning of summer.				Water supply	de Bertol	Search for water further away		Collecting water from the clouds	
Rainwater	No problem at all -Complementary method -Large tanks	Modern rustic	Modern cabins have a system adapted to their needs and conditions.		Manag- ement	Without 18 To The Control of the Con	Increase water storage capacity		Good pipework to prevent water leaks	

The water supply situation therefore depends on three factors: -The geographical location of the hut, - Its supply system, - Water management.

It was concluded that the water supply situation for mountain huts during the summer season varies depending on the specific location. Access to water will become a critical issue in the future for all communities worldwide. Global warming is not limited to the Swiss mountains; it is a phenomenon that affects the entire planet, regardless of geographical features.















