

Climate, Water, and Public Health in Africa

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The connections between climate, water, and disease will be explored using the example of malaria transmission in a couple of villages in the Sahel region of West Africa. Field observations provide evidence for a strong relationship between climate variability and malaria transmission in Africa. A detailed network of observations covering two villages will be reviewed and discussed to illustrate the mechanistic relationship between rainfall occurrence and mosquito population dynamics at the village scale. The role of numerical models as tools for prediction of the impact of climate change on malaria transmission will be discussed.