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## Investigating human-malaria mosquito contact in time and space using GPS data loggers

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Universitas Gadjah Mada, 2018 | Diunduh dari <http://etd.repository.ugm.ac.id/>

### Abstract

Reaching malaria elimination is one of the priority public health challenge for coming years in Cambodia and an efficient vector control is a key point in this context. Methods implemented so far like insecticides and bed nets are unsatisfactory because not strategically focused. Forests correspond to the most important risk area, especially in high malaria prevalence sites such as Mondolkiri province.

Therefore, to understand malaria transmission dynamic, we have setup a study based on GPS tracking and parasitological follow-up of forests goers. The results gave us a better understanding of the spatiotemporal contact pattern of infected vectors and human and will furtherly lead to the design of new strategies promoting effective vector control in Cambodia.

### Key words

Malaria, GPS, GIS, mobility, transmission