

Research Activity Report
Supported by “Leading Graduate Program in Primatology and Wildlife Science”
 (Please be sure to submit this report after the trip that supported by PWS.)

	2016. 05, 16
Affiliation/Position	Wildlife Research Center/M1
Name	Sota Inoue

1. Country/locationof visit
Japan, Koshima island
2. Research project
A study on Levy Flight model of Japanese macaques in Koshima island
3. Date (departing from/returning to Japan)
2016. 05. 04– 2016. 05. 12 (9days)
4. Main host researcher and affiliation
Dr. Suzumura, Koshima field station, Kyoto University
5. Progress and results of your research/activity (You can attach extra pages if needed)
Please insert one or more pictures (to be publicly released). Below each picture, please provide a brief description.
<p>During this visit, I conducted research on foraging strategies of Japanese Macaques in Koshima Island. Because of provisional feeding and limited land, the foraging strategies of monkeys in Koshima Island could be different from the other moneys in Japan. So, I examined whether the Japanese Macaques in Koshima Island follow Levy Flight model while foraging. If yes, how do they move?</p> <p>One of foraging strategies animals use is Levy Flight. When animals search for food, they tend to move not only for short distances, but for long distances as well. If they move only for short distances, the efficiency of foraging will gradually reduce. Therefore, it is important for them to switch between short and long distance to increase the efficiency of foraging.</p> <p>I used GPS device to keep track of movements of monkeys. I followed moneys and pursued monkeys with keeping particular distance against monkeys. I followed 3 individuals, I found that 2 individuals didn't follow Levy Flight model, but 1 individual followed Levy Flight model. That 1 individual 11 years old female and has high rank in the troop. Other 2 individuals are low ranked or middle ranked in the troop. This result suggests that, the rank in a group of a particular individual decides whether monkeys follow Levy Flight model or not. To test this hypothesis, I need to monitor more individuals for longer time.</p> <p>The Koshima field course gave me an opportunity conduct my first ever genuine fieldwork. I had great experiences from establishing a research theme and collecting data to analyze and present it in front of other participants.</p> <p>Following monkeys in the forest was difficult and it was over my expectation. However, I managed to follow few monkeys to collect their movement data.</p> <p>My research theme in field science course is different from what I intend to study during my graduation. However, this precious experience will surely help me in future.</p>

Grooming

“Yuu”

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6. Others

I grateful to Nakamura-san, Sugiura-san, Suzumura-san helped me in this field course.