

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.)

21 th / November / 2018	
Affiliation/Position	Graduate school of Asian and African Area Studies/ D3 in five year system of Ph.D. course
Name	Ryoma OTSUKA
1. Country/location of visit	
Nairobi, Kenya/ Masai-Mara and other national parks in Kenya/ Bwindi Impenetrable National Park, Uganda	
2. Research project	
IPS 2018 in Kenya / Kenya Field Tour / Research on Sustainability of Mountain Gorilla Tourism and Community Conservation in Bwindi Impenetrable National Park, Uganda	
3. Date (departing from/returning to Japan)	
17 th /August/2018 – 4 th /November/2018 (80 days)	
4. Main host researcher and affiliation	
Conservation Through Public Health (CTPH), Dr. Gladys Kalema-Zikusoka	
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.	
<input type="checkbox"/> Introduction & Aim of this trip <p style="margin-left: 20px;">During 17th/August/2018 – 4th/November/2018, I traveled to Kenya and Uganda.</p> <p style="margin-left: 20px;">The main purposes of this trip were,</p> <ol style="list-style-type: none"> To attend IPS 2018 in Kenya (19th/August/2018 - 24th/August/2018) and give a poster presentation To join a field tour in Kenya with 2 PWS students, Toge-san and Yokotsuka-san (25th/August/2018 - 29th/August/2018) To conduct fieldwork in Bwindi for “Research on Sustainability of Mountain Gorilla Tourism and Community Conservation in Bwindi Impenetrable National Park, Uganda” (2nd/September/2018 - 1st/November/2018) 	
<input type="checkbox"/> Achievements <p style="margin-left: 20px;">I. International Primatological Society Congress 2018 in Kenya (IPS 2018) It was first time for me to attend IPS, but I really enjoyed it. There were so many exciting presentations and it was really difficult to select. I was able to discuss with many people who came to my poster presentation and I got a lot of valuable comments and advises. It was also really great that I could interact with researchers from Karisoke Research Center in Rwanda. They kindly invited me to their research center. I would love to visit and learn more from them in the next field trip. I became a co-captain of a football team named “Ape Together Strong”. Thanks to the hard work of all team members, we won the FIPA world cup. I hope there will be a football tournament like this as well in the next IPS.</p> <p style="margin-left: 20px;">II. Kenya Safari Tour After IPS, we visited some Amboseri and Masai-Mara. It was really great experience. In my field site, Bwindi, gorillas are really habituated to humans, but in Amboseri and Masai-Mara, animals are really habituated to safari cars. This experience surely extended our knowledge and encouraged me to study more about conservation and tourism in different national parks or wildlife reserves.</p>	

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III. Fieldwork in Bwindi

478 fecal samples of known individuals were collected from night nests and trails in non-invasive way by RO and UWA trackers. 1.00 g of fecal samples were extracted in 25ml tube (with 8.0ml 90% ethanol) by hand-shaking for 5 min horizontally. Then they were kept for 40 minutes on the bench. 0.8ml of the supernatants were transferred into 1.5 ml PP tubes and dried at room temperature. They were preserved in a dark room at room temperature until the shipment.

Samples were shipped after getting MTA (Material Transfer Agreement) with UWA and Export Permit from UNCST officially. The data which seem to affect gorillas' stress levels (fecal glucocorticoids metabolisms concentration) such as temperature, humidity, inter-group interactions, body condition (injury, wound etc.), chasing event (by HUGO and UWA trackers) and tourists number per group per day were recorded. The collected samples will be analyzed in WRC (Wildlife Research Center of Kyoto University) using EIA.

We will use GLMM (Generalized Linear Mixed Model) with Gaussian distribution to explore factors are affecting on stress levels of mountain gorillas in Bwindi.

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Photo1. IPS Kenya



Photo2. After the FIPA final



Photo3. With FIPA world cup



Photo4. Elephants approaching to us 1 (Amboseri)



Photo5. Elephants approaching to us 2 (Amboseri)



Photo6. After hunting (Masai-Mara)



Photo7. Cheetahs surrounded by safari cars



Photo8. A leopard we encountered 1 (Masai-Mara)



Photo9. A leopard we encountered 2 (Masai-Mara)

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Photo10. Masai young men



Photo11. Recording time-lapse video



Photo12. Relaxing on his mom's back



Photo13. B8 almost becoming SB



Photo14. Licking bricks in a lodge around the park



Photo15. A SAd male in newly habituated K group



Photo16. An AdF with beautifull eyes



Photo17. Grooming their father's back

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Photo18. SB resting on a tree



Photo19. Inf calling her mother



Photo20. Reunion with a AdF who has been missing for a long time

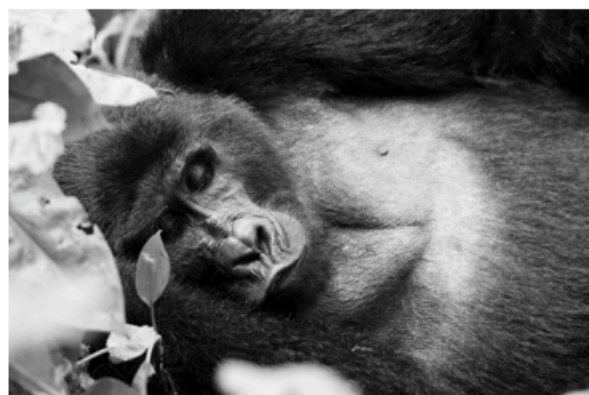


Photo21. BB resting peacefully

6. Others

This field trip was supported by PWS and JSPS. I am deeply grateful to Conservation Through Public Health (CTPH) for being our research partner. Appreciation goes to Uganda Wildlife Authority (UWA) and Uganda National Council for Science and Technology (UNCST) for permits to conduct this study and facilitate transfer of materials.