

Nagao NEF project:

Species diversity of terrestrial vertebrates in the mountains of Indochina

Principal Investigator:

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Field survey in Phou Den Din National Protected Area, Phongsaly Province, Lao PDR

2023.November.22 – 2023.December.12

Activity photos

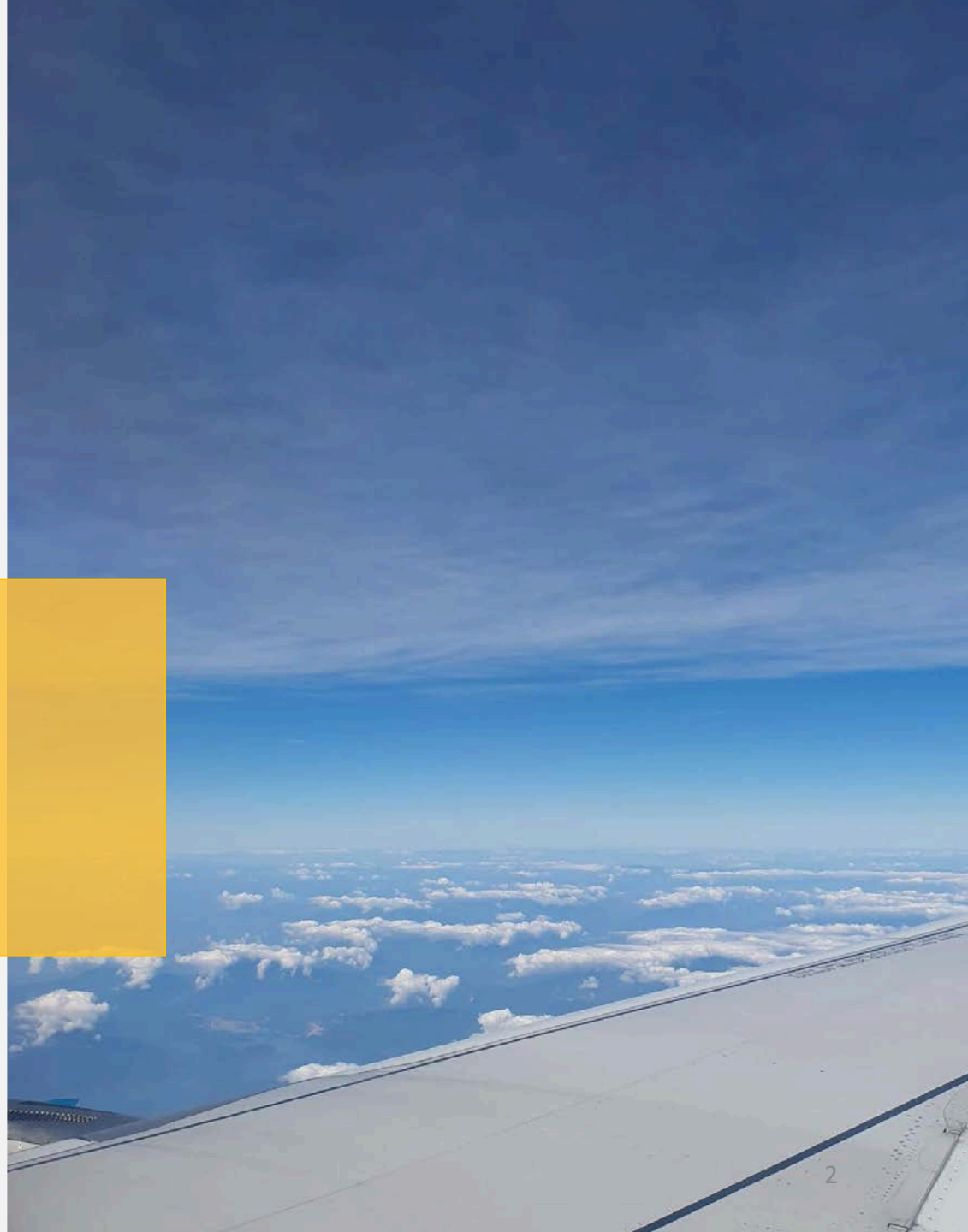




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— TRAVEL —



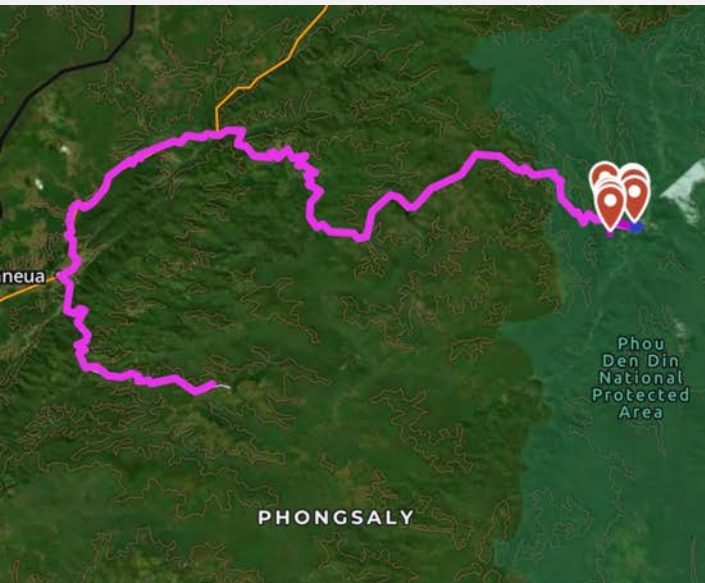
Load equipment into the pickup trucks



The way to Phou Den Din NPA



Take a rest after long ride with outstanding view and weather



← PSL trip 11/27/23 09:50:31

Ascent	1967(-2735)	m
Avg Speed	27.0	km/hr
Avg Moving Speed	31.1	km/hr
Max Speed	67.8	km/hr
Distance	162.64	km
Max Elevation	1499	m
Min Elevation	548	m



We crossed many steep mountains with many dangerous passes





The roads are not good, and the tires tend to give us a hard time

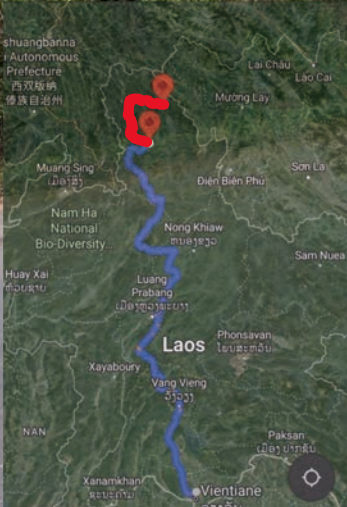
2023/11/27 15:38
+22.0464N +102.1755E
245° SW
Altitude:781.3m
Speed:1.3km/h



**There are no modern rest stops that don't leave us feeling tired.
One of the best lunches...**



Despite taking three days to travel nearly 1000 km, it did not deter us from reaching the beauty of nature and the environment



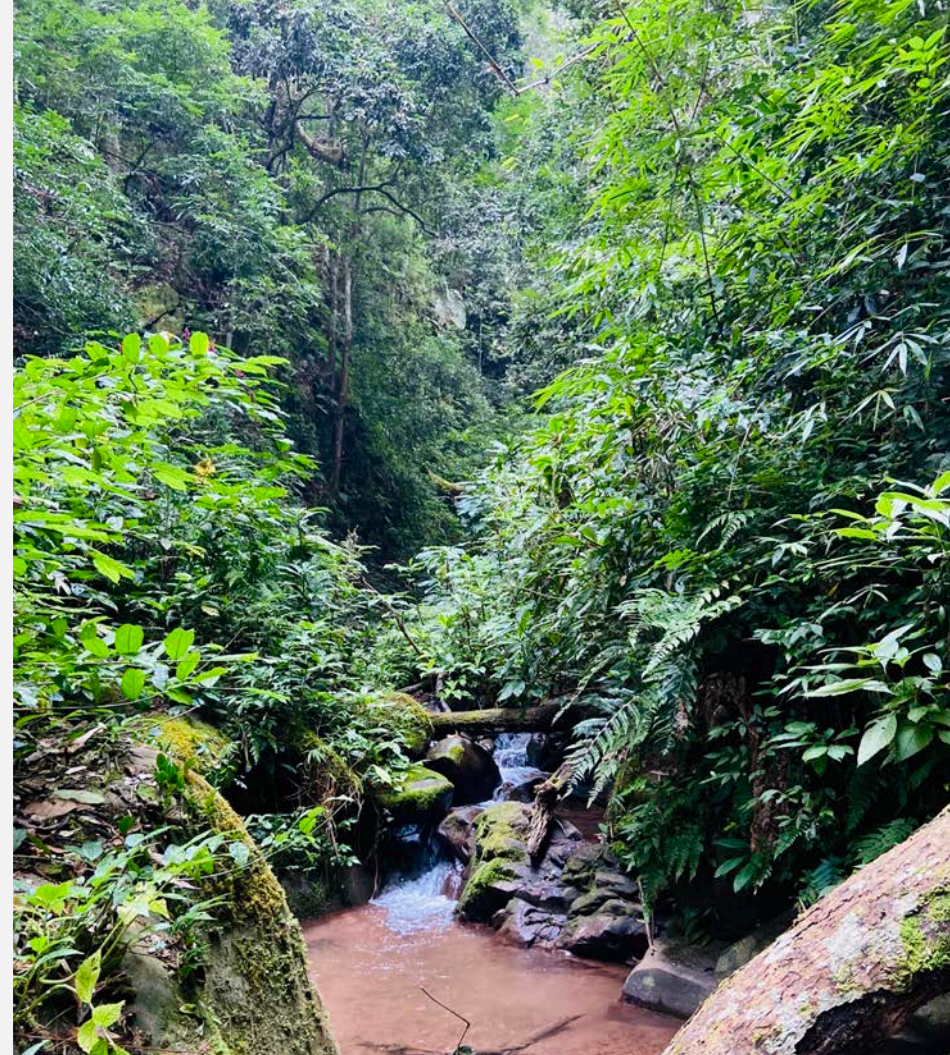


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— HABITATS AND ENVIRONMENT —

Bamboo grooves mixed hill evergreen forest



A stream in hill evergreen forest

A village surrounded by secondary forest and post-logging recovery forest





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ammak
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A misty primary forest



A forest mixed with banana, bamboo, cassava, and secondary forest



A wide river in the disturbed hill evergreen forest



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MAMMA
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The rubber plantation



Hydropower and resettlement areas have changed the habitat, ecosystem, and environment in the study area

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— RESEARCH ACTIVITIES —





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Preparing the harp trap

The harp trap was set for capturing the flying bats



The happy smile of
the researcher,
when handling a
cute fruit bat
captured by the
mist net



A fruit bat was
captured by the
mist net

We released an owl after taking it out from the bat mist net



**SM4 bat recorder
for automatic
recording
echolocation
calls of bats**



We climbed to the tops of multiple mountains for trapping every day



Pitfalls with drift-fence for catching Shrews and Lizards



The Shrews fell into the pitfalls



Dec 5, 2023 12:22:14
22°3'18.53241"N 102°14'34.74919"E ±32.00m

Altitude: 924.3m

Speed: 0.0km/h



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Sherman trap for capturing Rodent and Shrew

Sherman trap for capturing Rodent and Shrew





Release individuals of species for which sufficient specimens are available



Preparing labels for tagging specimens



Trap numbers with captured sites and specimen labels
were checked and organized very carefully



Taking live photos and specimen photos of the captured animals



Measuring and examining a lot of specimens until 2 A.M.



Making a squirrel skin



Extracting tissues for DNA analyzing



Working station: The Bat team is close, and the Rodent team is far



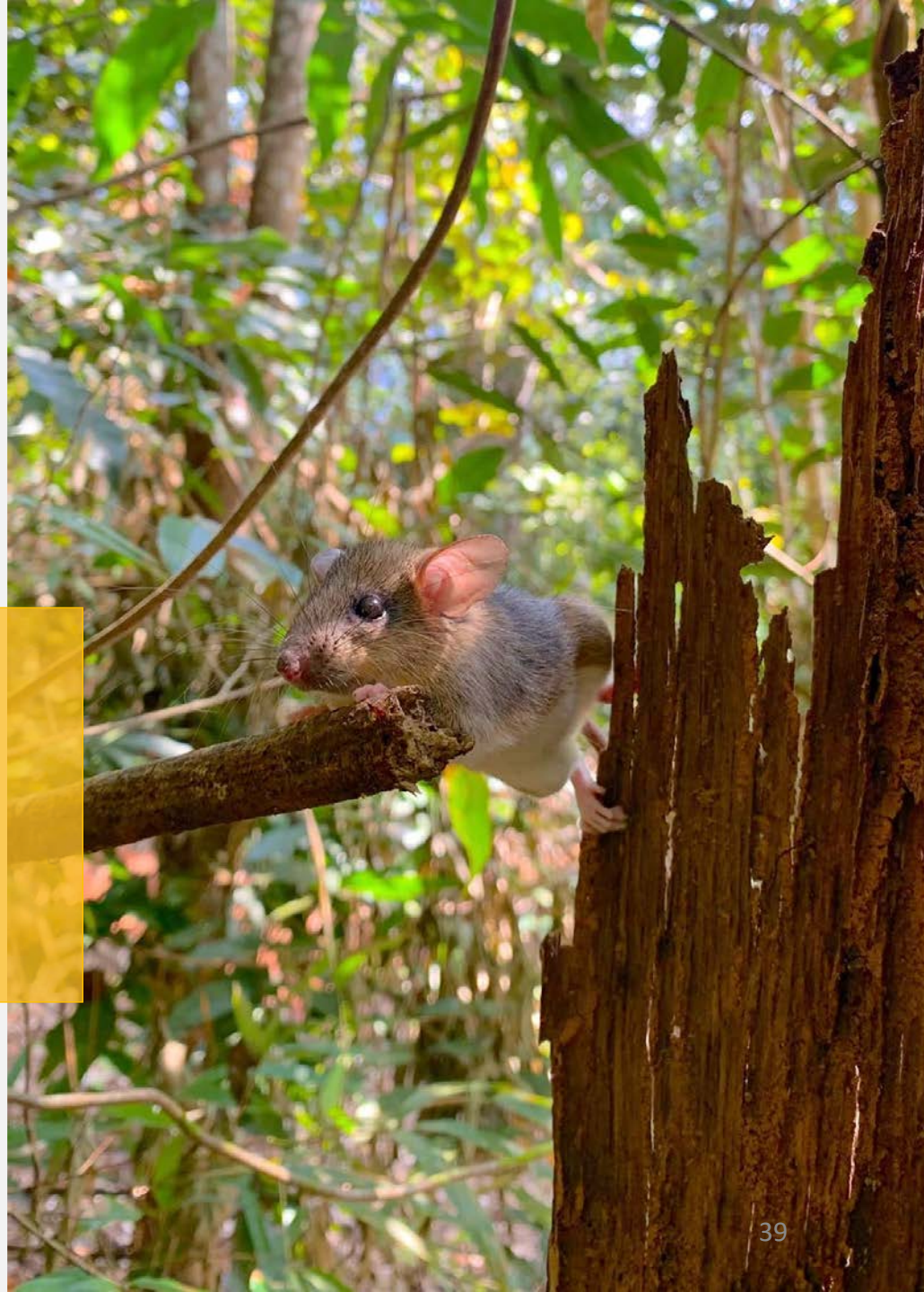
Night observation



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— LIVE ANIMAL PHOTOS —







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MOTOKAWA
Mammal
TEAM S

A *Hylopetes* flying squirrel























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A species of *Murina* (FES-KYOTO U 00715)







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A species of *Sphaerias* (FES-KYOTO U 00716)



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A species of *Rhinolophus* (FES-KYOTO U 00717)





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A species of *MacroGLOSSUS* (FES-KYOTO U 00839)



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A species of *Hipposideros* (FES-KYOTO U 00842)



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A species of *Tylonycteris* (FES-KYOTO U 00981)



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A species of *Myotis* (FES-KYOTO U 00985)

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— Life in the field survey —







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Local cuisine attracts us because of its delicious taste on every bite and its challenging, spicy flavors



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**We had a campfire by the road during
going to check the traps**



A fascinating dining experience in a forest





A real-life forest lunch restaurant. “Foreign diners” (two in the left) are expressing overwhelming praise for the deliciousness of Lao cuisine



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Communication with local researchers, managers, officers, and people has always been considered an important part of our work





