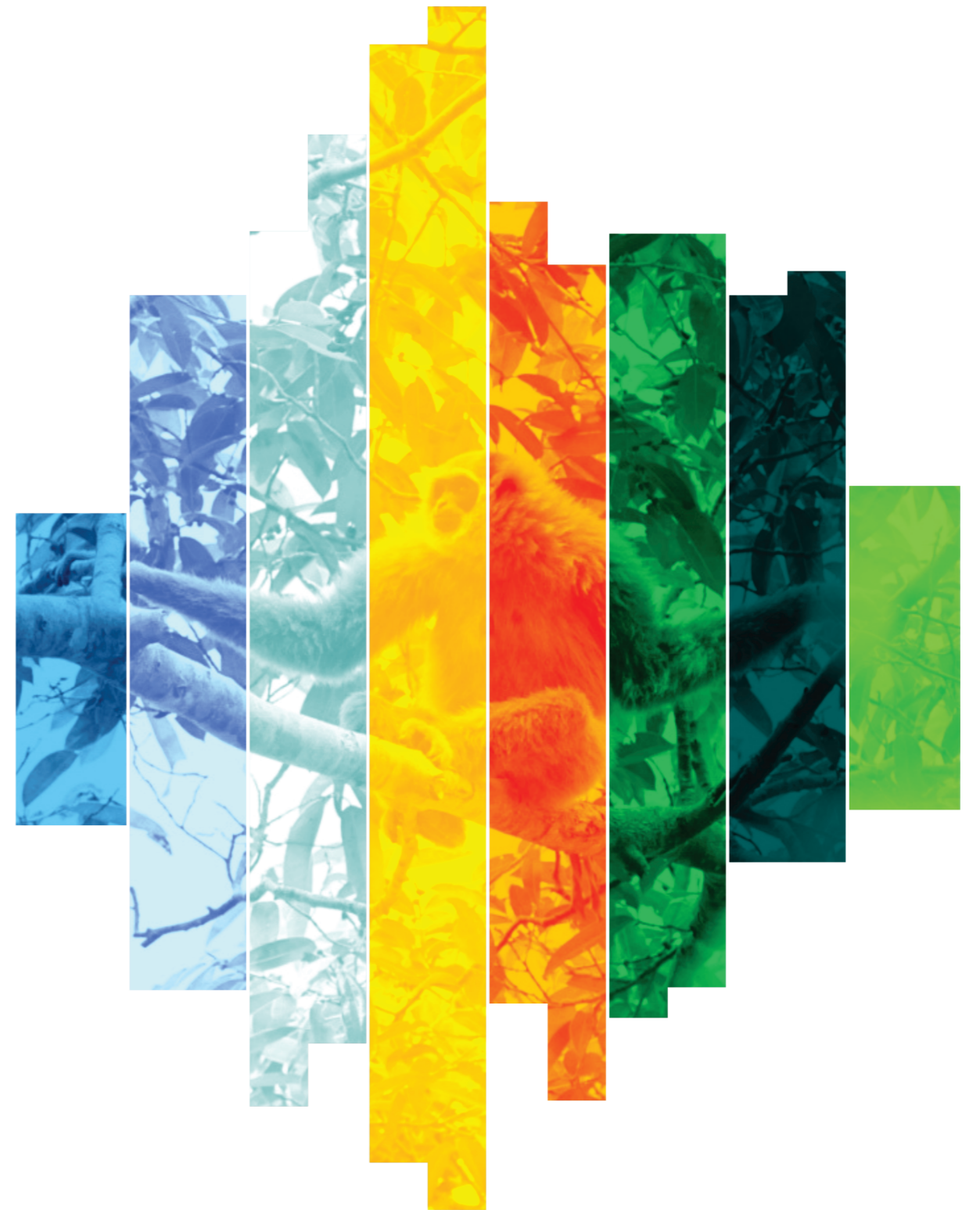
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*final report*  
**[2023]**  
COFFEE AND PRIMATE  
CONSERVATION PROJECT

*final report*  
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COFFEE AND PRIMATE  
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# SUMMARY

This report contains activities in 2023 project period. In September 2023, we were able to export coffee from our 2022-2023 harvest to the Singapore market, amounting to 1,500 kg valued at 16,387.81 SGD. We documented through scientific publication that more than 22% increase in the population size of Javan gibbons in our field site since the last survey in 2012.

We carried out biodiversity monitoring regularly every two months for birds and mammals, and created a checklist of fauna of two districts in Lebakbarang and Petungkriyono, to enhance protection status collaboratively with relevant stakeholders.

We also participated in a coffee festival and continue to supply honey or an animal rescue centre. Beekeeping learning centre for *Apis cerana* bees has been built in Setipis village, and this is the 2<sup>nd</sup> beekeeping learning centre that have been successfully established in Mendolo for stingless bees. Wildlife watching has been established in Mendolo for birding sites and in Sokokembang for primate watching site. We sold a total of 14 package tours to international visitors in the last six months. A series of education and conservation awareness activities were conducted in pekaongan region visiting 2 schools and 2 villages. The 10<sup>th</sup> gibbon field course was successfully held in 22-26 November 2023, invited 15 participants from Indonesia gibbon range regions Java, Sumatera and Kalimantan.

# ACTIVITIES

## OBJECTIVE 1:

*To improve post-harvest processing for shade grown commodities and to increase women participation in conservation and shade grown product development in two districts, Petungkriyono and Lebakbarang*

### **Field Activities January – June 2023**

1. Coffee processing improvement have conducted in Tlogohendro (two coffee processor) for Arabica coffee, and for Robusta coffee have been conducted in Sokokembang and Mendolo. In Tlogohendro, we support processing facilities (partially) by providing advice and equipment's for coffee drying and coffee pulping. Training was conducted to the farmers (two families-totally 9 people) in Tlogohendro with introducing solar drying doom with electric exhausts fan, and coffee pulping machine with 100 kgs capacities/hours. During last harvesting season (June-August 2023) we produced 2000 kgs of coffee totally. The coffee will be prepared for export to Singapore collaborative with Singapore Zoo and sold locally with gibbon friendly coffee brand.



Achievement on coffee processing, a processor in Tlogohendro village, have produced specialty quality green bean with 85 cupping score by Indonesia Coffee research center, highest score so far during last five years in the region.

In Sokokembang, a new coffee drying dome was built to advance coffee drying process, the solar dryer dome made by locals using bamboo and uv plastic. The solar dryer doome capacity about 500 kgs, and during this coffee harvesting season can produced 400 kgs robusta coffee.

## 2. Youth empowerment: capacity building of Paguyuban Petani Muda (PPM) Mendolo, Lebakbarang.

During January - February 2023 we working with Mendolo Youth Community (PPM) to enhance biodiversity knowledge on commodities surrounding the villages. Durian one of the most valuable seasonal potencies in Mendolo village. On 15 January 2023, we collaborate with PPM Mendolo, Biolaska (Students of Biology at UIN Sunan Kalijaga Yogyakarta, IDS (Indonesia Dragonfly Society), to research the potential of durians from Mendolo Village. We inventoried and did taste profiling on durians grown by local farmers. Our aim is to produce a catalogue of durian varieties in Mendolo that will most certainly be of use to durian enthusiasts seeking to explore the richness of these durians that are Mendolo's very own.



**Figure 1.** Durian cultivars in Mendolo (photo by Ikmal Bioalaska)

From a sample of 24 local durian varieties, we identified different physical and taste characteristics. Fruit shape ranges from perfectly round, to ovoid,

to wavy, all the way to pear-shaped. Husk colours include green, yellow and brown. The fruit itself also varies in colour, from white to yellowish white yellow. In terms of fruit taste, the profiles include sweet, creamy, alcoholic, slightly bitter, and sticky rice. The thickness of the fruit flesh is another variable characteristic. Report on this activities published in our blog : <https://swaraowa.org/the-richness-of-mendolo-village-durians-and-biodiversity/> We have plan in the next coming years, this durian database information will be used to develop eco-tourism in Mendolo, combine with birding and primate watching tours.

### 3. Wild-food and foraging, Sawahan-Mendolo (woman group activities)

Working with Sawahan women group, we try to that we called “*ngramban*”, with the aims: to learn about practice and knowledge on diets of people nearby the forest, since long time ago they utilize food from the nature. Some of these wild foods are proven to have good micronutrient components and are resistant to climate change so that they can strengthen food security going forward. These activities actually have been practiced since long time ago, in Mendolo, but not many families now utilize local food sources due to some circumstances.

From the wild food resources, we able to documented 18 dishes or varieties of cooking based on wild food resources, and serve able for lunch or dinner. This is a valuable tradition, as preparing food from locally sourced natural ingredients instils in the village community an appreciation for the various wild plants and animals in their surroundings. We documented name of food resources (especially herbs, part of the trees) local name, scientific name, part can be eaten, how to cook, serving. Photograph and video for this food resources and cooking are documented. These natural resources are usually shade grown, and important in the near future to know how to cultivate and can be combine with eco-tourism activities, to serve guest with local and healthy food from surrounding forest- villages. (report for this activities available in Bahasa here: <https://swaraowa.blogspot.com/2023/02/kekayaan-rasa-durian-dan-perspektif.html>)

### 4. Mendolo Coffee Meet and Role of Women in Coffee Tradition

On 18 and 19 March 2023, SwaraOwa/ KopiOwa partnered with PPM Mendolo to organise the ‘Mendolo Coffee Meet’ event. We had three items on our agenda – roasting coffee together, discussing the relevance of biodiversity to women involved in coffee agroforestry in Mendolo Village. The event attended

23 women in Mendolo, On the first day of the event, we invited women to explain the nitty-gritty of coffee-related customs in Mendolo, particularly the art of coffee roasting. We likewise engaged women of different ages in discussions about the role women in the village have to play in coffee agroforestry.



**Figure 2.** Traditional coffee roasting in Mendolo

Our focus group discussions revealed that while men and women contribute roughly equally to the coffee supply chain in Mendolo, their roles in it differ noticeably. For instance, men tend to be more involved in managing the coffee plantations, while women play a larger role in post-harvest activities typically carried out around their homes.

Some tasks are gender-specific, such as pruning and grafting, which have traditionally been done only by men. On the other hand, coffee roasting is a skilled role mainly reserved for women, who roast coffee mainly for their own family's needs and occasionally also those of their neighbours.

Report on this activity published here : <https://swaraowa.org/the-mendolo-coffee-meet-and-the-role-of-women-in-the-coffee-tradition/>



5. Enhance capacity on coffee processing in Mendolo, we have support mendolo youth farmers association ( PPM Mendolo) through improving of coffee roasting process, a used coffee roasting machine that previously used in Owa Coffee House have to hand over to the group, based on their local coffee production is need to upgrade for better quality and quantity. Their used traditional roasting equipment previously, and now with better modern roasting machine with 1 kg capacity. The machine has been dedicated to support production of Kopi Batir (a brand produced by PPM Mendolo).

6. Improving Owa Coffee production, a new coffee roasting machine have been purchased to support production and improve roasted beans quality of owa coffee for local market in Yogyakarta. The new coffee roasting machine have 2 kgs capacities with modern burning technology and digitalized system.

7. Leverage the wildlife friendly” brand value for commodities product.

Building sustainable initiative through consistent production quality, quantity and marketing activities is one of the key how to involve community in conservation. Economy relationship between project and community itself open further commitment to protect the environment and forest nearby. New package design has been created to improve sales and gain consumer engagement in our conservation programs.

Honey bees and Stingless bee honey, we continue to supply to Slow loris rehabilitation center at IAR (International animal rescue), every month we sent 5-12 kgs of honeys for additional nutrition of slow loris rehabilitation. We launch this program at crowd fund <https://kitabisa.com/campaign/muka> donation collected was used to buy honey that produced by farmers from Javan gibbon habitat. This scheme has direct impact on the economy of the beekeeper surrounding gibbon habitats, and also contribute for saving critically endangered primates in Indonesia.

### ***Field Activities June-December 2023***

1. Coffee export to Singapore, in July 2023 we sent 1500 kgs total Owa coffee arabica and robusta coffee beans to Singapore, total valued is **16,387.81** SGD



**Figure 3.** Owa coffee team with 1500 kgs coffee beans ready to sent to Singapore

2. Build beekeeping information centre in Setipis villae, district of Petungkriyono.

This facility managed by beekeeper farmer in Setipis village for developing beekeeping and eco-tourism based on beekeeping activities.



**Figure 4.** Beekeeper with his guest visitor at beekeeping information center

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## OBJECTIVE 2:

*To build biodiversity appreciation among local community and add conservation value to their shade grown commodities*

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### **Field Activities January – June 2023**

1. Wildlife monitoring have been conducted with camera traps and wildlife sound recorders, 14 camera trap points and 12 passive sound recording points have been set up in the Sokokembang and Mendolo forests in the seven months since September 2022. During this time, we installed both types of equipment for periods ranging from 10 to 36 days in order to collect approximately one month's worth of data during the wet season. So far, the camera traps have recorded *Javan leopard*, *Southern red muntjac* and wild boar. Our passive sound recorders also show that in the remaining forests in Lebakbarang, Javan gibbon can be clearly heard calling even at altitudes beyond 1000 m above sea level. All in all, these encounters confirm that the forests of this region still offer suitable habitat for these large mammals.



**Figure 5.** placement of pasive voice recorder for gibbon monitoring

Wildlife monitoring also conducted collaboratively with local govt forestry officials, to enhance their capacity, and provide latest biodiversity database and as part of contribution of swaraowa as member of collaborative forest management that have been initiated in 2018. [Report for this wildlife monitoring are written and sent to all stakeholders members in Pekalongan regency.](#)

## 2. Conservation awareness and education for the community

Two activities that being conducted recently in Mendolo, first is introducing wildlife to the women groups that joining Mendolo coffee meet. The wildlife photos are part of the capacity building for the Mendolo youth association (PPM Mendolo) to document their wildlife from the wildlife monitoring activities. The second is, conservation education for children in Mendolo, these activities have been conducted twice during last six month in Mendolo for school children involved two schools with totally 35 kids, we introduce wildlife surrounding their schools and villages, through field observation and take note for the local name for the wildlife. [Report on this activity available in Bahasa here.](#)



**Figure 6.** Wildlife photography, as a medium to increase appreciation of biodiversity in Mendolo Agro-forest

## 3. Wildlife watching (gibbon watch and bird watch) tour Sokokembang and Mendolo

To promote conservation and generate sustainable economy for the communities in gibbon habitats, we have working with the community in Mendolo and Sokokembang for wildlife watching trip. This trip is available now by request and promoted through social media. last six months we have received guest from domestic and international visitors to join our trip for gibbon watching and birdwatching in Sokokembang and Mendolo. This trend is potentially increase in next coming months, where we received request for



**Figure 7.** Gibbon watching tour in Sokokembang

summer trip . we have been collaborating with several wildlife tour agencies in Singapore and Belgium to promote the next coming wildlife watching trips. Wildlife watching tour now being developed with other experience and educative activities, in Sokokembang primate watching tour are combined with shade grown coffee experience, and in Mendolo we combine wildlife watching tour with durian tasting experience.

### ***Field activities June-December 2023***

1. Improving the capacity of Mendolo farmers group to organize wildlife watching trip, we invited 15 people of Mendolo to visit Jatimulyo village in Yogyakarta on 5-6 June 2023. This village has been recognized as a bird friendly village in Yogyakarta. The program included on how to organize trip, hospitality and how to engage village government on protection regulation of birds. Trip report here : <https://swaraowa.blogspot.com/2023/06/menjalin-persaudaraan-untuk-gerakan.html>

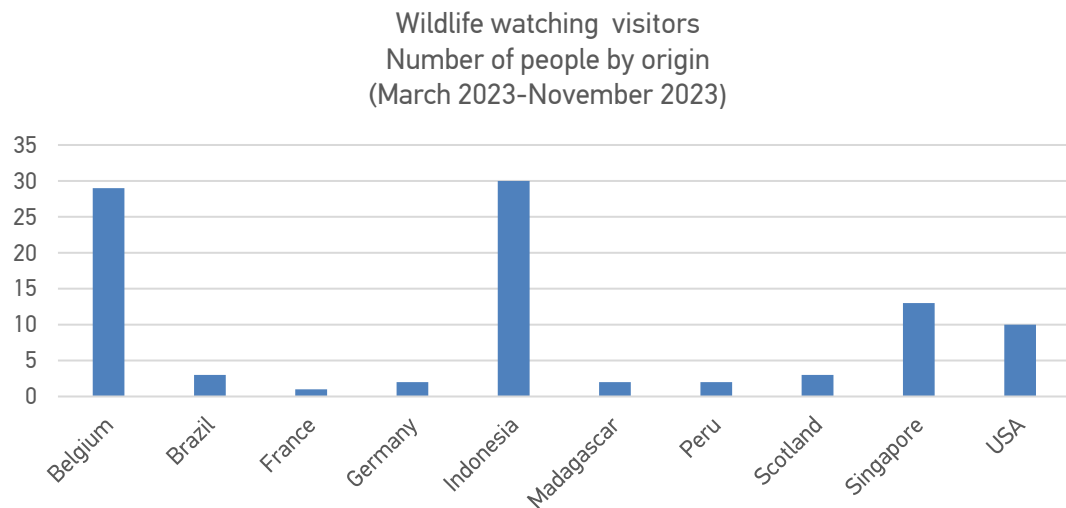
2. Wildlife watching tour Sokokembang and Mendo. Increasing number of visitors and their origin to visit the project or conduct wildlife watching has significant impact to organize this activities professionally. During last six months, there were a total of 14 packages of wildlife tour sold for international visitors. Working with the community in wildlife watching now



**Figure 8.** Guest family join gibbon watching tour in Sokokembang

established in Mendolo and Sokokembang, we had a total of 65 visitors from local community and from abroad during the last six months, with various purposes for gibbon watching, primate watching, mammal watching, and birding.

3. In October 13-15 2023, we launched PRIMAVEST (<https://primavestour.com/>) IG : <https://www.instagram.com/primavestour/> and joined tour exhibition at Asian Bird Fair. Primavest is tour agency that is being created to support wildlife watching tour in Swaraowa's projects sites especially in Central Java and Mentawai Island. Number of visitors during March-2023 presented in the graphic :



#### 4. Mendolo Nursery

In Mendolo, a nursery has been established which has produced 500-1,000 local trees and fruit trees. These trees are now ready to wait for the rainy season next coming year.

5. Forest Clean up, we conducted regularly to clean up plastic waste on the road along the forest from Kroyakan to Sokokembang (4.6 km). We worked with a youth community in Sokokembang village to collect plastic waste along the road, selected and sorted out plastic that can be recycled. We sold it to recycler agency in the town. Last three months we collect about 50 kg of plastic waste on the road.

6. Performance art to celebrate world food program. Its 2<sup>nd</sup> celebration in Mendolo to celebrate world food day (16 October) . With Javanese theatrical performance "Kethoprak" we organize the event to promote sustainable food resources, gibbon conservation and beekeeping activities, through

the theatrical art performance. this event also to celebrate establishment of nursery and beekeeping program in Mendolo, especially in Sawahwan sub village.



**Figure 9.** Performance art for world fooday 2023 in Mendolo



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### **OBJECTIVE 3:**

*Conduct research and building capacity for young conservationist and strengthening activities of swaraowa's conservation education center.*

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Since January 2022, swaraowa's conservation and education center has established in Sokokembang villages, the facilities is become field office for all swaraowa's activities in this dieng mountains landscape. The house with all facilities now become information center, coffee production facilities in sokokembang, and lodging for students who doing research and community development activities for the gibbon conservation in central java. last six months there are four students conducted study, using facilities and provided scholarship.

The center also now being field secretariat for collaborative forum of petungkriyono forest management, storage for all equipments, data collection and provide class room for education and discussion purposes. Swaraowa's education center will host next the 10<sup>th</sup> sokokembang gibbon field course.

#### ***June - December 2023***

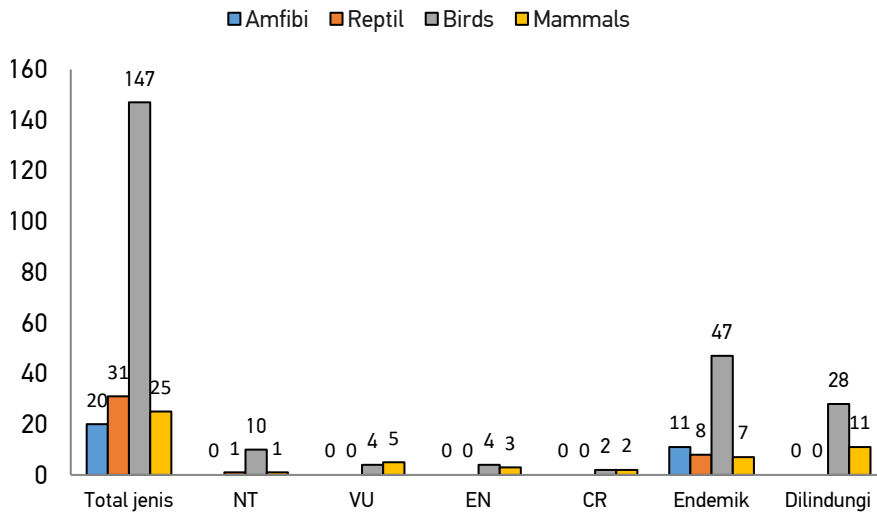
1. Mendolo Birdwatching Hide, with PPM Mendolo we set up a hide for bird photography. Two hide was established in Mendolo and Sawahan for bird photographer. Two species of Kingfishers i.e banded kingfisher and oriental dwarf kingfisher being target for this bird hide establishment. This hide was received guest since established in August 2023, however maintenance and daily monitoring on the birds need to be conducted intensively due to recent dry season.

2. Biodiversity monitoring, for collaborative forest management in Petungkriyono. Conducted monthly, with forestry stakeholder in Petungkriyono to enhance forest protection. Report for this activities can be read here : <https://swaraowa.org/biodiversity-monitoring-collaborative-forum-for-petungkriyono-forest-management/>



Figure 10. Collaborative forest patrol and monitoring team

Check list fauna and flora of Petungkriyono and Lebakbarang have been created from last two years monitoring, summary for the fauna species presented in this table, categorized based on IUCN status, endemism, and protected by Indonesia law (dilindungi, -list of protected species by Indonesia Law) :



Distribution map for the fauna that we observed during monitoring are here :

<https://www.google.com/maps/d/edit?mid=1CzeK0wCG5fwrnpAkrrp2yLQHY3NShc&usp=sharing>

3. Swaraowa scholarship program , there are five students this last six months received scholarship from local universities :

a) two student from University of Sebelas Maret University, conducted final thesis for their bachelor biology degree, study on Javan langur population and habitat in Sokokembang forest, read her for here blogpost report : <https://swaraowa.blogspot.com/2023/10/lutung-jawa-primata-endemik-di-rimba.html>

b) two master students from Gadjah Mada University, conducted study on soil invertebrate diversity and bees visiting flowers on shade grown coffee habitat.

c) a student from Malang Agricultural Institute, east java conducted study on Javan surili ( *Presbytis fredercae*) habitat suitability modelling. Read here blog post report here : <https://swaraowa.org/story-from-the-field-rekrekan-presbytis-fredericae-in-petungkriyono-forest/>

4. Gibbon day celebration , 24 October 2023. Conducted in Siregol, Kramat village, district of Karangmoncol, Purbalingga regency. Collaborative event with Primate Study Group of Gadjah Mada University we invite 15 students to join with local community in Kramat for camping and gibbon watching. This event written in Bahasa here : <https://swaraowa.blogspot.com/2023/11/hari-owa-2023-camping-owa-di-siregol.html>



**Figure 11.** Gibbon camp to celebrate Gibbon Day 24 October 2023

5. The 10<sup>th</sup> Sokokembang Gibbon Field Course, conducted at 22-26 November 2023, total 15 participants across gibbon range habitat in Indonesia, Java, Kalimantan, and Sumatera. We invite guest lecturer ms Yan Lu, from Cloud Mountain Conservation Foundation China to share their knowledge and experience. Read report for this event in this blog post : <https://swaraowa.org/the-10th-swaraowa-gibbon-field-course-msp-x-2023/>



**Figure 11.** Gibbon camp to celebrate Gibbon Day 24 October 2023

# PUBLIC DISSEMINATION AND PUBLICATIONS

1. Presentation at Global Gibbon Network, Hainan Island China 7-9 July 2023. <https://swaraowa.org/swaraowa-building-global-cooperation-for-gibbon-conservation/>
2. A decade of gibbon population in Dieng landscape, Central java, Indonesia. Widyastuti, S., Perwitasari-Farajallah, D., Iskandar, E., Prasetyo, L.B., Setiawan, A., Aoliya, N. and Cheyne, S.M., 2023. Population of the Javan Gibbon (*Hylobates moloch*) in the Dieng Mountains, Indonesia: An updated estimation from a new approach. *Biodiversity Data Journal*, 11. <https://swaraowa.org/a-decade-of-javan-gibbon-in-the-landscape-of-the-dieng-mountains-central-java-indonesia/>
3. Presentation on International Primate Congress and symposium, Kuching, Malaysia, 19-25 Augustus 2023, there are 3 presenters from swarowa, give oral presentation with different topics. Report from the event: <https://swaraowa.org/swaraowa-at-world-primate-congress-and-symposium-2023/>

# ACKNOWLEDGEMENT

We would like to express our gratitude for the support of parties who directly or indirectly support swaraowa activities, a big thank you to Fortwayne Children' Zoo, Ostrava Zoo, Chance for Nature, Mandai Nature, and the arcus foundation for supporting coffee and primate conservation project activities in 2023.

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