



Republic of the Philippines
Department of Environment and Natural Resources
MIMAROPA Region
COMMUNITY ENVIRONMENT AND NATURAL RESOURCES OFFICE

March 15, 2023

FOR : The Regional Executive Director
DENR, MIMAROPA Region
1515 L&S Building
Roxas Blvd., Ermita, Manila

THRU : The Provincial Environment and
Natural Resources Officer
Puerto Princesa City, Palawan

FROM : The Community Environment and
Natural Resources Officer

SUBJECT : **SUBMISSION OF INDIVIDUAL LEARNING REPORT**

In compliance with the Regional Special Order No. 247, series of 2020, we are submitting herewith the Individual Learning Report on the training, *re: "Ground Truthing using a Remotely Piloted Aircraft System"*, conducted by USAID-SIBOL, on March 1-4, 2023 at Aziza Paradise Hotel, Puerto Princesa City, attended by the following personnel, to wit:

1. FR Aurino, Enrico III L
2. Eng'g. Aide Recto, Dennis Everen A.
3. FR Velasco, Mark Ronald S.

For information and record.


LEONARD T. CALUYA

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DENR-CENRO
BROOKE'S POINT

RELEASED

DATE: MAR 16 2023

BY : f

#: 2023-1382



INDIVIDUAL LEARNING REPORT

Part 1 (To be prepared by the participant)

Name of Participant:	Enrico L. Aurino III
Office/Service:	DENR CENRO Brooke's Point/MES
Training Title:	Ground Truthing Through a Remotely Piloted Aircraft System (RPAS)
Learning Providers:	USAID-SIBOL
Inclusive Dates:	March 1-4, 2023
Venue:	Aziza Paradise Hotel, Puerto Princesa City, Palawan

I. EVALUATION OF THE COURSE:

- **Technical Content:**

This Learning Event incorporates lectures and demonstrations of topics relative on Basic information/knowledge/insights on:

1. The different HCV or High Conservation Value categories of the Philippines' ecosystem or the "sukat ng kalikasan" which is also based on the international categories.
2. The difference between Remotely Piloted Aircraft (RPA) and Remotely Piloted Aircraft System (RPAS).
3. Basic maneuvering of the Remotely Piloted Aircraft (RPA) or the Drone and the common precautions when flying a drone.
4. Importance of creating a drone team and recording of every flight logs,
5. Difference of flying a drone through flight planning and manual flying.
6. Actual or on-field training and application of basic maneuvering of a drone, and
7. Post-processing of images captured by drone to produce an orthomosaic images which describes the land cover of a certain area.

- **Impression/Comments:**

1. The learning providers and speakers made their topics interactive and easy to understand. Queries and concerns were answered nicely and clearly for us to understand the topic better.
2. I observed that most of the participants, including me, who have no background or experience in drone flying but are very interested to learn and finally have experienced the actual drone flying, thanks to the initiative of the trainers to teach us the basic maneuvering and let us try to do the actual drone flying.
3. It was also very helpful that an actual flight planning was conducted in our final activity wherein participants were able to show all the things learned during the last day session and were able to apply the concepts about aerial ground-truthing, base station setting-up and image processing.

II. RELEVANCE OF THE LEARNING EVENT TO PARTICIPANT'S WORK/FUNCTION:

- As an employee of the DENR and working in a functional work system, all the discussions and topics were all relevant to my work/function. We can use the drone in monitoring of the NGP projects and areas to determine the actual status of the plantation. We can also the images captured from the drone to determine the extent of damages in a particular area whether in the forest or in mangrove areas. Also in in determining the status of the land cover in the protected area as a whole.

III. RECOMMENDATIONS:

- Continuation of the said course/training for us to be able to familiarize deeply the operation of a drone and especially the application of flight planning in drone flying.
- Procurement of additional unit for ease of activity and other additional gadgets that would be used in such applications as flight planning.

IV. POST LEARNING ACTION PLAN/PROPOSAL:

Proposed Plan/Activity/Output	Time Frame
Conduct aerial monitoring in NGP areas.	Whenever and wherever possible
Apply knowledge/insights gained from the learning event.	Whenever and wherever possible

Part 2 (To be prepared by the Supervisor)

How will you support the post Learning Action/Proposal?

Provide technical support of the implementation in the discharging of duties in connection with the above mentioned post learning action plan/proposal

Have you discussed any concerns/resources needed by your subordinate so that he/she can effectively transfer the skills and knowledge gained from the training?

No.

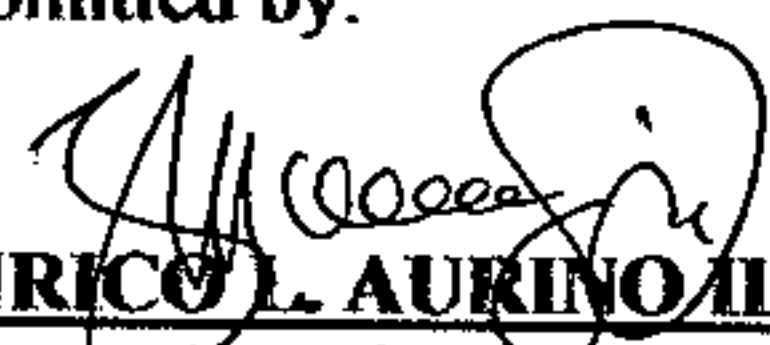
Would you be willing to send him/her again to other training/seminar/conference?

Yes ☒ No ☐ Others ☐

If yes, please specify courses.

Follow-up/refresher trainings/learning events relative to Flight planning with the use of apple and android mobile phones, and post-processing of images generated from drone flying.

Submitted by:


ENRICO L. AURINO III
Attendee

March 13, 2023

Date

Noted/Confirmed by:


LEONARD T. CALUYA
CENRO

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INDIVIDUAL LEARNING REPORT

Part 1 (To be prepared by the participant)

Name of Participant:	DENNIS EVEREN A. RECTO
Office/Service:	CENRO Brooke's Point/RPS
Training Title:	Training on Ground Truthing using a Remotely Piloted Aircraft System
Learning Providers:	Sustainable Interventions for Biodiversity, Oceans and Landscapes
Inclusive Dates:	March 1-4, 2023
Venue:	Aziza Paradise Hotel, Puerto Princesa City, Palawan

I. EVALUATION OF THE COURSE:

- **Technical Content:**

The course outline was briefly discussed by Regina Aedrienne Inovejas-Geomatics Forest Associate and Daniel Glenn Darapiza-Geospatial Research Associate, to give an overview about the learning event. The resource speakers from SIBOL has tackled all the necessary data and information the participants needed to understand as follows:

1. Relating the remote sensing output on preliminary land cover mapping to ground surveys;
2. Understanding the concept of ground-truthing through aerial surveys;
3. Understanding the use of a Remotely Piloted Aircraft Systems (RPAS) and ground control points (GCP) for ground-truthing; developing orthomosaic images from RPAS photography;
4. Interpreting land cover classes from orthomosaic images and assessing accuracy; and
5. Forming RPAS teams and developing a schedule for each to cover the training samples located on the ground.

- **Impressions/Comment:**

For the technical content and discussion of topics, all speakers expressed their deep knowledge and understanding of their assigned topic.

During the question and answer portion, most of the questions were answered directly and clearly by the concerned speaker. It is also very helpful that an actual flight planning was conducted as final activity of the said training. Here, participants were able to show all the things learned during the last day session and are able to impose the concepts about aerial ground-truthing, base station setting-up, image processing, on-field training and fieldwork planning.

The four-day activity is success as it yielded more than twenty participants from SIBOL partners and local stakeholders. The undersigned would like to thank the sponsors for the said activity for the good venue, sumptuous food and very informative sessions.

II. RELEVANCE OF THE LEARNING EVENT TO PARTICIPANTS WORK/FUNCTION

As an employee of this Department and working in a functional work system, all discussions and topics are all relevant. We can use the drone for the verification of lots status and to determine the actual improvements.	
III. RECOMMENDATIONS I would like to recommend the continuation of the said course for other personnel to be able to learn the basic maneuvers and flight planning of drone.	
IV. POST LEARNING ACTION PLAN/PROPOSAL	
PROPOSED PLAN/ ACTIVITY/ OUTPUT	TIME FRAME
Conduct aerial monitoring on Timberland specially in Mangrove areas	4 th week of March, 2023
Apply knowledge/insights gained from the learning event.	Whenever and wherever possible

Part 2 (To be accomplished by Supervisor)

How will you support the post Learning Action Plan/Proposal?

To support the action plan of this delegate, this Office may allot funds to be utilized for the procurement of materials needed in the generation of flow chat and brochures.

Have you discussed any concerns / resources needed by your subordinate so that he/she can effectively transfer/apply the skills and knowledge gained from the training?

No.

Would you be willing to send him/ her again to other training/seminars/conference?

Yes ___/___ No ___ Others ___

If yes, please specify courses

Follow-up/trainings/learning events relative to image processing generated by drone offered by the DENR.

Submitted by:


DENNIS EVEREN A. RECTO
Attendee

March 10, 2023

Date

Noted/Confirmed by:


LEONARD T. CALUYA
CENRO



INDIVIDUAL LEARNING REPORT

Part 1 (To be prepared by the participant)

Name of Participant:	MARK RONALD S. VELASCO
Office/Service:	CENRO Brooke's Point/MES
Training Title:	Training on Ground Truthing using a Remotely Piloted Aircraft System
Learning Providers:	Sustainable Interventions for Biodiversity, Oceans and Landscapes
Inclusive Dates:	March 1-4, 2023
Venue:	Aziza Paradise Hotel, Puerto Princesa City, Palawan

I. EVALUATION OF THE COURSE:

- **Technical Content:**

The course outline was briefly discussed by Regina Inovejas, Geomatics Forest Associate to give an overview about the learning event. The resource speakers from SIBOL has tackled all the necessary data and information the participants needed to understand as follows:

1. Relating the remote sensing output on preliminary land cover mapping to ground surveys;
2. Understanding the concept of ground-truthing through aerial surveys;
3. Understanding the use of a Remotely Piloted Aircraft Systems (RPAS) and ground control points (GCP) for ground-truthing; developing orthomosaic images from RPAS photography;
4. Interpreting land cover classes from orthomosaic images and assessing accuracy; and
5. Forming RPAS teams and developing a schedule for each to cover the training samples located on the ground.

- **Impressions/Comment:**

For the technical content and discussion of topics, all speakers expressed their deep knowledge and understanding of their assigned topic.

During the question and answer portion, most of the questions were answered directly and clearly by the concerned speaker. It is also very helpful that an actual flight planning was conducted as final activity of the said training. Here, participants were able to show all the things learned during the last day session and are able to impose the concepts about aerial ground-truthing, base station setting-up, image processing, on-field training and fieldwork planning.

The four-day activity is success as it yielded more than twenty participants from SIBOL partners and local stakeholders. The undersigned would like to thank the sponsors for the said activity for the good venue, sumptuous food and very informative sessions.

II. RELEVANCE OF THE LEARNING EVENT TO PARTICIPANTS WORK/FUNCTION

As an employee of this Department and working in a functional work system, all discussions and topics are all relevant. We can use the drone for the monitoring on NGP projects and in protected areas to determine the actual status of forest covers.

III. RECOMMENDATIONS

I would like to recommend the continuation of the said course for other personnel to be able to learn the basic maneuvers and flight planning of drone.

IV. POST LEARNING ACTION PLAN/PROPOSAL

IV. POST LEARNING ACTION PLAN/PROPOSAL	
PROPOSED PLAN/ ACTIVITY/ OUTPUT	TIME FRAME
Conduct aerial monitoring on NGP areas	4 th week of March, 2023
Apply knowledge/insights gained from the learning event.	Whenever and wherever possible

Part 2 (To be accomplished by Supervisor)

How will you support the post Learning Action Plan/Proposal?

To support the action plan of this delegate, this Office may allot funds to be utilized for the procurement of materials needed in the generation of flow chat and brochures.

Have you discussed any concerns / resources needed by your subordinate so that he/she can effectively transfer/apply the skills and knowledge gained from the training?

No.

Would you be willing to send him/ her again to other training/seminars/conference?

Yes __/__ No ____ Others ____

If yes, please specify courses

Follow-up/trainings/learning events relative to image processing generated by drone offered by the DENR.

Submitted by:


MARK RONALD S. VELASCO
 Attendee

March 9, 2023
 Date

Noted/Confirmed by:


LEONARD T. GALUYA
 CENRO