

PHILIPPINE SEA

# Establishing a Wildlife Sanctuary in Sitio Longog, Calayan Island

## *Technical Report II*

ISLA Biodiversity Conservation

Municipality of Calayan, Cagayan  
January 2010 - July 2010

SOUTH CHINA SEA

0 1.5 3 6 Kilometers



**ESTABLISHING A WILDLIFE  
SANCTUARY IN SITIO LONGOG,  
CALAYAN ISLAND**

Municipality of Calayan, Cagayan

**TECHNICAL REPORT II**

ISLA Biodiversity Conservation

January 2010 – July 2010

Cover illustrations: Maps of Calayan Island land use plan and Calayan Island watershed areas overlaid.

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## Background and Executive Summary

In January 2010, volunteers from Isla Biodiversity Conservation, Inc. (Isla) temporarily marked the proposed boundaries of the wildlife sanctuary. This was in line with the recommendations by the Sangguniang Bayan (SB) raised during the Public Hearing on September 28, 2009 at the Magsidel Elementary School. The team visited 8 points located along or near trails or streams. To demarcate the boundaries, trees along the trails were painted with yellow and blue stripes.

In April 2010, the DENR-Community Environment and Natural Resources Office (CENRO)- Sanchez Mira, Cagayan visited the island of Calayan to survey areas with applications for land titles, especially in Sitio Longog. This raised the concerns of the local government, Philippine National Police (PNP) – Calayan and citizens as there were claims that some of the applications fall under the forest zones and within the proposed wildlife sanctuary strict protection zone; while others claim that some applicants are not local residents of Sitio Longog. Another visit by the DENR was made in May 2010, this time by the Regional Assessment Team of DENR-Region 2 to delineate forest lands and Alienable and Disposable (A&D) Lands. Their field visit included Sitio Longog (Longog a Bassit and Longog a Dakkel) and Staka, and established markers/ monuments made from orange PVC pipes and cement.

As agreed in 2007, existing houses and ricefields will not be within the proposed strict protection zone. As a solution, an agriculture zone, where the A&D lands and most of the residences and ricefields are located, will be delineated. This will ensure that the community need not be relocated and can still proceed with their existing livelihood, provided that they do not expand towards the sanctuary or open new kaingin.

To answer concerns on this issue, as well as to assure the community that the proposed wildlife sanctuary's strict protection zone is outside the designated A&D Lands - and that the sanctuary does not prohibit livelihood of existing land owners and residents – Isla Biodiversity Conservation organized another public consultation to clarify issues on land ownership vis-à-vis the wildlife sanctuary. We also updated the participatory resource map obtained in 2007 to take into consideration new infrastructures and rice fields. These new information will be used to revise the proposed wildlife sanctuary and agriculture zone boundaries, where applicable.

We are working more closely with the DENR, through DENR-Region 2 office, the Provincial Environment and Natural Resources Office (PENRO) - Cagayan and CENRO Sanchez Mira. A meeting with representatives from the CENRO and the Vice Mayor of Calayan, Hon. Florencio de Guzman, Jr. also took place on June 29, 2010. Upon reviewing the process already done by the local community and LGU for the establishment of the sanctuary, the DENR is keen on elevating it to the National Integrated Protected Areas System (NIPAS) as soon as the ordinance is passed and a management plan in place at the municipal level. Further consultation with the LGU and the local community is needed to get their opinion and recommendation on this matter.

For the LGU's part, the Municipal Mayor, Hon. Alfonso Llopis, the Vice Mayor, as well as the Sangguniang Bayan members continuously support the proposed sanctuary. Likewise, it is aimed to have the draft ordinance re-filed in the new Sangguniang Bayan administration and one of the top priorities during the SB's regular sessions. Isla is continuously lobbying for the passage of the municipal ordinance adopting the wildlife sanctuary. A Public Presentation was organized, where a 3-Dimensional Map of the Island showing the proposed boundaries of the sanctuary is presented. A signature campaign was also done to show the support of the community, most especially the local residents and farmers.

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# Proceedings

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Temporary Marking of  
Boundaries  
January 2010  
Calayan Island

Public Consultation and  
Resource Map Update  
28 June 2010  
Sitio Longog, Calayan, Cagayan

Public Presentation  
03 July 2010  
SB Session Hall  
Poblacion, Calayan, Cagayan

3-Dimensional Map:  
Materials and Methods  
Manila and Calayan

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PROCEEDINGS  
**Temporary Marking of Boundaries**

In line with the recommendations from the Public proceeding for the Establishment of Wildlife Sanctuary in Sitio Longog, Calayan Island dated September 28 2009 (refer to Municipality of Calayan and Isla Biodiversity Conservation Inc. 2009. Establishing a Wildlife Sanctuary in Sitio Longog, Calayan Island, Public Hearing Proceedings), a team composed of volunteers from Barangay Magsidel, Sitio Longog, Isla volunteers and staff demarcated the boundaries of the proposed wildlife sanctuary. Two stripes (yellow and blue) were painted on trees along the trails to mark the boundaries. GPS coordinates; photo documentations and relative site description were gathered for each marked site.

***Participants:***

Jameson Reynon (Isla Biodiversity Conservation Inc./Field Assistant)  
Rocky Reynon (Magsidel Volunteer)  
Renz Escalante (Magsidel Volunteer)  
Ryan Alvero (Magsidel Volunteer)  
Lino Payas (Longog Volunteer)  
Jun Juan (Longog Volunteer)  
Harvey John D. Garcia (Isla Biodiversity Conservation Inc./Volunteer)  
Julie Ann Cabrerros (Isla Biodiversity Conservation Inc./Volunteer)

***Temporary markings:***

Waypoint	Coordinate N	Coordinate E	Date of temporary marking/ Common name of area/Notes
S001N	19.322540	121.449090	1/31/10; Longog nga dakkel; Near the farm of Mr. Tinong Estabillo; Trees marked were Alimunos and Magalayaw
S002N	19.329690	121.438850	1/30/10; Longog nga basit; Near the farm of Mr. Enrique Duero
S003N	19.335540	121.410780	1/30/10; Cataruman Trail; Trees marked were Pamaraybayin
S004N	19.321840	121.454770	1/31/10; Near the farm of Mr. Dalong Estabillo; Trees marked were Pangamiringin and Anagep
S005N	19.321830	121.450270	1/31/10; Near the farm of Mr. Tinong Estabillo; Trees marnked were Alimunos and Sidae
S006N	19.336490	121.442910	1/30/10; Near the farm of Mrs. Paz Orel; Trees marked were Sidae and Kapge
S007N	19. 335110	121.486950	2/2/10: Past globe cell site heading to Dilam. Near Kilo-kilo river. Trees marked were Pangamiringin and Sagat.
S008N	19.312750	121.456620	1/31/10; Near the farm of Mr. Jun Juan; Trees marked Apo and Dalipawen



## PROCEEDINGS

### **Public Consultation and Participatory Resource Mapping**

#### ***Background:***

We commenced with the dialogue to know the stakeholder's perceptions and acceptability of establishing a wildlife sanctuary in Calayan Island. Through a consultation in Sitio Longog in 2007, we sought recommendations from the local residents and owners: the community showed support and acceptance to the sanctuary and reached a consensus on the wildlife sanctuary boundaries and its regulations. During this consultation, we held a participatory resource mapping activity wherein we asked the local residents to identify locations of houses, ricefields and other notable socio-cultural and physical features found in Sitio Longog. These were validated by the community and by a team from Isla Biodiversity Conservation who visited each infrastructure, land or feature and marked the location of these using a GPS. The product of the resource map, as well as the recommendations of the community were used to design the location and proposed boundaries of the sanctuary.

The results of the consultation and mapping activity were presented for comments to the members of the Sangguniang Bayan and local government unit during a meeting at the SB Session Hall in Barangay Poblacion in 2008. With this, a Public Hearing was recommended. Also in May 2008, we held another consultation in Longog to discuss the inputs of the meeting with the LGU and SB and seek the local residents' comments on these.

In September 2009, we held a Public Consultation in Magsidel Elementary School in Barangay Magsidel, Calayan. The Public Consultation was attended by the member of the SB, key local government offices, Philippine National Police - Calayan and community members. Although there were representatives, only a few members coming from families and landowners in Sitio Longog were able to attend. Here, the provisions as stated in the draft municipal ordinance were reviewed per section; while new provisions were added. All rules and regulations agreed upon by the local community in 2007 were incorporated in the ordinance.

In January 2010, we proceeded with the temporary marking of boundaries along strategic locations around the wildlife sanctuary – a recommendation by the SB during the Public Hearing. These markings were located near trails so they can be visible to passersby. Per location, two trees were painted with blue and yellow.

In April 2010, a team from the CENRO-DENR Sanchez Mira visited Calayan Island to accommodate applications for land titles in Sitio Longog. Further in May 2010, the Regional Assessment Team from DENR Region 2 demarcated the forest and A&D Lands, including the released lands in Longog. The LGU wanted to clarify if this would not fall within the proposed sanctuary; as such, we wanted to make sure that the demarcated A&D Lands are outside of the sanctuary and thus, the sanctuary would not impede ongoing livelihood by the local residents.

Because of these developments, particularly on issues of land titling, we wanted to assure the local residents and farmers that the design of the proposed wildlife sanctuary adheres to the agreements during consultations. Also in June 2010 during the island-wide Calayan Rail survey, team members noticed newly opened kaingin/ farmlands that are worthy of validating if they fall within the strict protection zone. We wanted to validate the location of these lands, and where possible, revise the boundaries of the proposed wildlife sanctuary and agriculture zone to include this new information.



**Objectives:**













The objectives of the consultation are as follows:

- 1.) Share the outcome of the public hearing held last September 28, 2009 in Magsidel Elementary School;
- 2.) Gather information on land use changes in Sitio Longog; and
- 3.) Clarify issues on Alienable and Disposable (A&D) lands and the wildlife sanctuary.

**Methodology:**

**Preparing the legends.** For conformity, we selected legends used in 2007 that will represent information to be updated during the workshop. These were printed on construction papers: red for the socio-cultural, green paper for economic, blue for physical features.

Table 1: Legends

Socio-cultural and Political		Economic	
	Balbalay (House)		Talon (Rice field)
	Eskwelaan (School)		Uma (Kaingin)
	Simbaan (Church)		Kadaanan (Former Kaingin)
	Kampo Santo (Cemetery)		Nalaegan (Former Rice field)
Environment			
	Waig (Stream)		Kuweba (Cave)
	Pangil (Falls)		Danum nga Mainum (Potable Water)

**Making the Base and Resource Map.** The software called MapSource was used to prepare the base and resource map. From here, all validated coordinates of residences, ricefields, and physical features gathered in 2007, and the boundaries of the proposed sanctuary and agriculture zone were saved and can be accessed as waypoints or routes. Please refer to the report “Establishing a Wildlife Sanctuary in Sitio Longog, Calayan Island Technical Report” (2008) for information on the participatory resource mapping held in 2007 and for the list of house and land owners as of May 2007.

We first showed the waypoints of the trails and routes of both proposed sanctuary and agriculture zone. Using an LCD projector, we projected this and traced the information into a manila paper to become the base map. Two base maps were prepared for each group during the resource mapping workshop.

Three plastic sheets were prepared, wherein one sheet would represent either the socio-cultural (houses, chapels, schools, burial grounds), economic (kaingin, irrigated ricefields, abandoned kaingin and abandoned irrigated ricefields) and physical features (waterfalls, streams, caves) that when layered together will become an on-the-ground representation of the resources found in Longog.

Per sheet, we projected the waypoints that fall under each sector then taped the paper with legends to the plastic sheet. Names of the corresponding house/land owners were also taped on the legends.

**Marking of Alienable and Disposable (A&D) Lands.** We requested a copy of the A&D boundaries from DENR, but as this was not yet consolidated at the time of our visit to the office of the Land

Management Sector of PENRO-Cagayan, we went around Longog to visit and mark each monument using our own GPS. This was made easier as Isla field assistant Mr. Jameson Reynon and volunteers Mr. Renz Escalante and Mr. Rocky Reynon were part of the team of DENR that established monuments delineating A&D lands around Longog and Staka. We placed the position of these points on a fourth plastic sheet under the title of A&D Lands. The coordinates that we have recorded are unofficial and are only used for presentation purposes as well as to validate the proposed wildlife sanctuary and agriculture zone boundaries.

**2D Mapping.** We did the same method as in the 2007 participatory resource mapping (see Establishing a Wildlife Sanctuary in Sitio Longog Technical Report, 2008). This time, however, we asked the participants to check if the information from 2007 is still valid, and provide new information to update the resource map (e.g. new owners of lands, transferred homes, house no longer existed, newly opened ricefields, or now abandoned kaingin).

**Data Processing and Validation.** The new information gathered from the participatory resource mapping was noted by the facilitators. These were later visited by the team and marked with GPS. Also, prior to the public consultation, team members conducting the Calayan Rail monitoring survey already marked and identified houses and lands that were either new or previously unmarked. This is the case in Staka, where previously unmarked houses and landfields were seen during a day of survey. Isla was not aware of the presence of these, nor were these mentioned during the 2007 resource mapping.

Further, some farmers requested the team to visit their lands and check if it falls within the proposed strict protection zone. The results of our team’s visit and recommendations were provided to these farmers.

These new data were taken into consideration in revising the proposed wildlife sanctuary and agriculture zone boundaries. The revised boundaries are attached.

**Documentation.** Majority of the consultation was held in Ilocano, the local and most preferred language of the community. The local volunteers facilitated some activities and guided the participants during the groupings and open forum. The visual aids for the objectives and results of the Public Hearing were written in Ilocano.

The consultation was documented using a video camera recorder and an MP3 recorder. Photos were also taken during the meeting. Documentors were also tasked to take down the minutes of the meeting.

**Proceedings:**

<b><i>Time</i></b>	<b><i>Activity and Facilitator</i></b>
09:00	Registration Mr. Ryan Alvero and Mr. Jonald Reynon, volunteers of Isla Biodiversity Conservation (Isla), facilitated the registration
10:02	Icebreaker Mr. Renz Escalante, another Isla volunteer, facilitated a short icebreaker to energize the participants and facilitators.
10:04	Introduction, Mr. Jameson Reynon introduced Isla Biodiveristy Conservation and the volunteers of the organization. The participants were also acknowledged.
10:10	Objectives

	<p>Mr. Carl H. Oliveros of Isla provided the objectives of the meeting.</p> <p><i>Panggep:</i></p> <ul style="list-style-type: none"> <li>• <i>Ipakaammo kadakayo ti resulta ti Public Hearing idi Septyembre idi nalabas nga tawen;</i></li> <li>• <i>Tapno dumawat iti impormasyon panggep iti pinagbalbaliw iti panag-usar ti daga ditoy Longog</i></li> <li>• <i>Tapno malawlawagan dagiti saludsud panggep kadagiti released nga daga wenno Alienable and Disposable ken iti panakaipatakder ti maysa nga buski wenno daydiay wildlife sanctuary.</i></li> </ul>
10:12	<p>Background</p> <p>Mr. Carl Oliveros reviewed the process undertaken since 2007 in establishing the proposed wildlife sanctuary.</p> <p><i>CARL: Bago tayo magpatuloy, kayat mi lang nga mangted ti background information kadagitoy buski. Idi 2007, Mayo idi, nagkaroon tayo ng konsultasyon dito rin sa bahay na ito. Pinag-usapan po natin yung wildlife sactuary wenno buski ken adda napagsaritaan tayo ti patakaran ti buski. Adduda. Idi Mayo 2008, kinausap po name ti miyembre ti LGU ket Sangguniang Bayan. Binigay po namin sa kanila yung napag-usapan natin tungkol dito sa sanktuwaryo at kinuha po ang kanilang opinion tungkol doon nagaramid tayo ti mapa ti Longog</i></p> <p><i>Idi Mayo 2008, nagkaroon po ulit tayo ng meeting dito din po, tungkol naman pos a mga sinabi ng LGU. Pagkatapos po noon, humingi po ang SB na magkaroon ng Public Hearing tungkol din dito sa buski.</i></p> <p><i>Idi Septyembre 2009, haan amin nga taga Longog nakaatendar. Manmano lang nga taga Longog ti nakaatendar. Kaya po gusto naming ipakaammo kadakayo ti resulta na ken dumawat ti karagdagan na ti impormasyon.</i></p> <p><i>Idi 2007, nagaramid tayo ti mapa ti Longog. Sinabi po natin kung saan yung mga balbalay, dagidiay taltalon, dagidiay uma, kadaanan ken nalaegan para po malaman kung saan yung mga sakahan ninyo. Ngayon po, gusto nating kumuha ng karagdagang impormasyon para po malaman kung mayroong mga bagong talon, kung mayroong bagong bahay dito sa Longog at mga bagong mga sakahan. Bakit po namin gustong gawin iyon? Para po maipakita sa atin kung saan sa Longog yung mga bagong talon at sakahan kaya po hihingi kami ng impormasyon sa inyo tungkol doon.</i></p> <p><i>Idi February ken March, April, imay ditoy ti DENR nga nagmarka ti daga nga released wenno A&amp;D. Baka mo may mga tanong pa kayo tungkol doon. Sana nga po andito yung DENR para makasagot din po sila, pero sana po makarating din sila. Kung hindi naman po makarating, yung mga tanong niyo po ipaparating namin sa DENR.</i></p> <p><i>Yun po yung gagawin natin sa ngayon araw. Sa huli po ng ating meeting, magkakaroon po tayo ng open forum nu adda saludsuden yo.</i></p>
10:17	<p>Results of the Public Hearing</p> <p>Mr. Carl H. Oliveros enumerates and explains the results of the Public Hearing last September 2009 in Barangay Magsidel.</p> <p><i>CARL: Dagiti sumaganad dagiti mapagsasaritaan idi Public Hearing:</i></p>

	<ul style="list-style-type: none"> <li>• <i>Pannagikabil iti pagilasinan/ marka iti lawlaw wenna pagpatinggaan ti sanktwaryo. Dagitoy pagmarka naaramid min idi January/ February 2010. Yung mga mayroon pinta ng yellow ken blue. Isu daydiay ti proposed nga pagpatinggaan ti sanktwaryo.</i></li> <li>• <i>Nu mabalin ket iddian ti panagikuyog ti paltog wenna buneng iti uneg ti sanktwaryo. Ito po ay para hindi mapaltugan dagidiay bibiag, mga bil-billit kasdiay, kasi sanktwaryo ngarud.</i></li> <li>• <i>Panagaramid dagiti barangay iti ordinansa nga mangkontrol wenna manglapped iti panagikuyog ken panagaramat ti paltog. Kung gusto po sa barangay, yung barangay po yung pwedeng magkontrol ng mga paltog, daydiay airgun.</i></li> <li>• <i>Nasayaat nga maaddaan iti “multiplier” babaen iti tulong dagiti tanod, forest wardens ken volunteer wardens nga mangkita ken mangireport iti PNP wenna pulis kadagiti aglabsing iti patakaran ti sanktwaryo. Meron po tayong mga tanod dito; adda dua nga forest warden kada-barangay nga in-appoint ni Mayor. Iyon pong mga volunteer wardens, sapay kuma taga ditoy Longopara mas mabantayan nga po itong ating sanktwaryo para meron dito sa loob, meron din sa labas.</i></li> <li>• <i>Dagiti pagruwaran ken nasken nga mabantayan tapno malik-likan dagiti panaglabsing kadagiti patakaran ti sanktwaryo. Mabalin nga agpatakder iti “outpost” kadagiti pagruwaran/ pagserkan.</i></li> <li>• <i>Ti Sangguniang Bayan (SB) iti mangidaulo ken mangkita ti sanktwaryo kadua na ti LGU, PNP ken dagiti opisyal ti barangay.</i></li> </ul> <p><i>Napagnunumuan pay kadagiti sumaganad:</i></p> <ul style="list-style-type: none"> <li>• <i>Ti panagkalap iti ikan, udang wenna dadduma pay nga makalap kadagiti danum (waig, karayan) nga adda iti uneg ti sanktwaryo ket maiparit. I-klaro ko po na daytoy maiparit ti panagkalap ti udang ditoy unneg ti protection zone. Kung matandaan niyo po mayroon din tayong agriculture zone, kaya po sa agriculture zone mabalin ngem daydiay strict protection zone maiparit ti agkalap.</i></li> <li>• <i>Maipalubos nga sumrek dagiti turista iti uneg ti sanktwaryo, ngem kasapulan nga sumurot/ agtungpal da kadagiti patakaran ti sanktwaryo.</i></li> </ul> <p><i>Dagitoy, apo, ti resulta ti Public Hearing idi Septyembre 2009. Adda saludsud yo nga maipanggep kadagitoy napagsaritaan idi 2009? Meron pa po tayong open forum mamaya.</i></p>
10:34	<p>Participatory Resource Mapping 2</p> <p>Mr. Jameson Reynon first discussed the base of the 2D map, describing the scale, boundaries, trails and legends. He then presented the information gathered from the 2007 PRM activity and validation: the first sheet contained information on socio-cultural sector/ infrastructures (houses, chapels and schools/ day care center); the second sheet represented, economic, the location of rice fields (irrigated, kaingin, abandoned irrigated or kaingin lands); while another plastic sheet, physical, showed natural features such as streams/ creeks, caves and waterfalls.</p>
10:42	<p>PRM Information Update and Validation (grouping and reporting)</p> <p>Mr. Jameson Reynon and Mr. Renz Escalante facilitated the grouping of participants. Two groups were formed – one group to update information on the socio-cultural sector, while another group to update economic information from the residents/ farmers in Longog. Instructions were given before the plenary proceeded to the grouping. The groups were asked to update the existing information by adding or removing new houses or ricefields, or by checking if the owners of the lands/ houses remain the same. The facilitators took notes on their respective group’s inputs by writing down these data and by drawing/ writing on the map.</p>
11:20	<p>Group presentation</p>

	The facilitators reported the outputs of their groups, pointing out the houses or ricefields that were updated. Mr. Renz Escalante shared the socio-cultural sector group's work, while Mr. Jameson Reynon presented the economic sector group's output. After the reporting, the outputs for both groups were crossed validated and comments and/or new information were asked from the plenary.
11:30	<p>Presentation of Demarcated Alienable and Disposable (A&amp;D) Lands</p> <p>Mr. Rocky Reynon presented the boundaries (shown in the map as red points) of the A&amp;D Lands in Sitio Longog (Longog a Bassit and Longog a Dakkel) and Staka gathered by Isla. As the participants are fully aware of the DENR's visit, Mr. Reynon explained that the A&amp;D Lands are either within the designated agriculture zone, or outside the wildlife sanctuary (for Staka). He elaborated that the points gathered by Isla is unofficial, and that the DENR has the final version.</p>
11:36	<p>Open Forum</p> <p>The Open Forum was led by Mr. Carl Oliveros, assisted by Mr. Jam Reynon.</p> <p><i>CARL: Meron po ba kayong mga katanungan tungkol sa ginawa nating pagmamapa at tanong tungkol dito sa mga namarkahan po na released na lupa. Uray ag-Ilokano kayo. O kaya mayroon po kayong tanong tungkol sa buski wenno sanktwaryo.</i></p> <p><b>Question if the boundaries of the sanctuary has been marked.</b></p> <p><b>Answer: The team, as recommended by the SB temporarily marked the boundaries of the sanctuary, represented by trees painted with yellow and blue stripes.</b></p> <p><i>VICENTE GONZALES: Gusto ko lang malaman kung may marka na ba itong sakop ng sanctuary?</i></p> <p><i>CARL: Ang ginawa po namin nung January, yun pong mga dinadaan ng daan na boundary ng sanktwaryo, minarkahan namin ng blue at yellow para kapag papasok at lalabas ka ng boundary niya alam mo kung nasa loob ka na nung sinasabing strict protection zone. Pero po ilan lamang diyay ang namarkahan. Hindi pa po lahat kasi temporary pay lang. Nu mapasan ti ordinansa diyay Sangguniang Bayan tayo, doon na po kailangang markahan lahat. Siguro po mas maganda yung talaga nga signboard nga daytoy ti patingga na.</i></p> <p><b>Suggestion to minimize airgun, especially upon entering the strict protection zone. It was suggested that permanent signage should be established upon the passage of the sanctuary so the people will know if they are already inside the sanctuary.</b></p> <p><i>VICENTE: Siak ti nagsuggest nga i-minimize iti airgun. Kasi sumrek ditoy nga naka-airgun alanganin nga buybuyaen la iti billit na hindi napaltugan. Adda koma marka datoy agkalalaw ket ammo nan sanktwaryo daytoyen mabalin nga agsubli.</i></p> <p><i>CARL: Siguro po kapag naipasa na ang ordinansa, maganda po na malagyan bawat entrance ditoy sanktwaryo tayo malagyan ng marka para po malaman ng lahat ng papasok na ito'y sanktwaryo.</i></p> <p><i>VICENTE: Siyempre kung naka-airgun, di na ammo adda gayam uneg ti sanktwaryo.</i></p> <p><i>ROCKY REYNON: Kayat ko gayam nga inayon pay kadagiti tatay apo kayat yo agdamag nudtoy pakakastaan ti pagpatinggaan daytoy release ditoy ket mabalin siguro nga damagen ken ni Manong Efraim, Rogel, da Manong Lino, Mang Ruben. Mabalin damagen ti pagpatingaan ti release. Adda pay garam ni Manong Tito.</i></p> <p><i>CARL: Mayroon pa po kayong tanong?</i></p>

JAM REYNON: Apo, kayat ko ibasa pay daytoy surat para idtoy Isla ken amin kadatayo nga kalugaran ditoy Longog ken amin dagitoy apo:

**Mr. Jam Reynon read an open letter from Mr. David Abel. A copy of the letter is attached. Mr. Carl Oliveros answers the questions per item.**

**On Mr. Abel's comment on clearing forests: should not be allowed. Carl emphasized that according to the law, clearing of forests/ kaingin is not allowed. Abandoned ricefields within the sanctuary should not be opened again, however those that are within the agriculture zone can still be cultivated.**

CARL: Kasi po kanina may mga nagtanong din: pwede ba tayo magbukas ng bagong uma? Hindi po talaga. Ayon sa batas, hindi. Kahit nasa loob po kayo ng sanktwaryo, o nasa labas ng sanktwaryo, hindi po iyon pwede. Kapag kadaan na nasa loob ng sanktwaryo, matagal nang hindi ginagalaw, hindi na rin po siya pwedeng taniman. Pero po kapag iyong kadaan na nasa agricultural zone, pwede po iyong taniman ulit. Pero po kung malalaki na po yung puno, sayang naman po.

**On his question on the benefits of the wildlife sanctuary to the residents of Longog, the residents said that the sanctuary will benefit the wildlife, trees and their supply of water.**

CARL: Gusto ko po kayo ang sumagot. Sa tingin nyo po, mayroon po ba kayong nakikitang (benepisyo ng wildlife sanctuary).

FOREST GUARD: Lalong lalo na sa mga ibon. Siyempre sa next generation ay may makikita pa ang mga anak natin. Sa mga kahoy, kung mapuputol ang mga kahoy wala nang aakyat ang mga anak natin. Wala na silang makikitang fresh air, mga ilog.

VICENTE GONZALES: Kanyak ket daydiay number 1 daytoy danum. Kasi daydiay danum nga mapan Dibay proper ket nagapo amin ditoy Longog ket nu mauma daytoy maawanan kami idiyay. Maymaysa lang ti danum ti Dibay proper.

CYNTHIA: May kinalaman sa sagot ni sir (Vicente Gonzales), ito yung mapa ng wildlife sanctuary at watershed ng buong Calayan Island. Dito makikita natin kung ano-ano yung mga watershed sa buong Calayan na mapro-protektahan dahil doon sa sanctuary na itinatayo. Makikita natin na hindi lang isang watershed, pero karamihan sa mga watershed na nagbibigay ng tubig sa buong Calayan ay mapro-protektahan din. (Jam translates in Ilocano.)

**Harvesting of freshwater eel (udang): Allowed within the agriculture zone, but prohibited harvesting if within the strict protection zone.**

CARL: Ang nasabi po natin, bawal po ang pagkuha kapag nasa loob ng strict protection zone. Pero kapag sa agriculture zone po kayo manghuhuli, pwede po iyon. Kasi po wildlife sanctuary nge e, kaya po dapat lahat talaga hindi tayo kukuha. Marami din naman pong waig dito sa loob ng agriculture zone.

Participants comment on poisoning the water to catch freshwater eels. They said that this is illegal and can be harmful to people especially since the streams are used for drinking.

**Harvesting of tabon bird eggs (iplog ti ukong): As the harvesting of these eggs is done opportunistically, not a lot of people will be affected as their community also have the**



**eggs of their chicken as source of protein.**

Carl asks if there are many people gathering the eggs of tabon bird. The participants reply that only if they see them.

CARL: Maaapektuhan po talaga, pero marami po bang tao na umaasa sa itlog ng ukong? Magugutom po ba ang mga tao kapag hindi sila kumuha ng itlog ng ukong? Hindi naman po siguro. May mga itlog naman po yung mga manok natin. Hindi naman po siguro.

**Trees for houses of residents from Longog: This is prohibited within the strict protection zone. In other areas, permit from DENR is necessary for cutting trees as the law states. Salvaging of trees is allowed, but has to comply with the process of the LGU.**

CARL: Sa ngayon po, sa loob ng strict protection zone talaga sa napag-usapan po natin na patakaran, maiparit ti mangala ti kayo. Ngem, ruar nga, mayroon pong proseso ng pagkuha ng kahoy. Ang totoo po niyang proseso ayon sa batas ayt kailangan niyo po ng permit galing sa DENR. Ngayon po, hindi po nasusunod iyan kahit pos a Longog, Dadao, Dibay, Camiguin dip o nasusunod iyan. Pero maganda po sana na masunod. Hindi din naman po naming pwedeng sabihin na pwede kayong magputol ng kahoy kasi ayon sa batas, kailangan ng permit. Ang masasabi lang po namin ay: sundin po sana natin ang batas. Ngayon kung masusunod po iyun, mas maganda.

Doon naman po sa salvage, meron naman pong proseso na sinusundan din sa munisipyo kapag salvaged. At pagkaka-alam ko po ang mga chainsaw ay naka-deposit po ngayon. Kaya po kung magsa-salvage ka din, pwede naman po iyon ayon sa batas. Pwede po iyong magsalvage ng kahoy – yung natumba na po, hindi po yung nakatayo pa. Yung dating natumba, pwede pong i-salvage. May proseso po sa munisipyo para doon.

**On catching wild pigs or baboy damo (alingo): Not allowed within the sanctuary.**

CARL: Kung sa loob po ng buski ay hindi po talaga pwede. Siguro po sa labas kung may maka-tiyamba. Pero hindi din naman din po siguro magugutom yung tao kapag hindi po magsilo ng alingo.

**On budget: It was suggested that the budget for the sanctuary come from the LGU.**

CARL: Sa huli po nating usapan ang sina-suggest po namin ay manggaling sa LGU. Kasi po ang LGU po may budget po talaga iyan para sa pagprotekta ng environment. Kaya maganda rin po na sa LGU manggagaling. At saka po kung sa LGU po kasi, iyan po ay taon-taon na ma-i-bu-budget. Sa amin po siguro tutulong kami kasi ang sitwasyon po namin, yun pong mga pondo na ginagamit namin ina-apply pa po namin iyan ng mga grant. Pwede po kaming tumulong sa paghingi ng tulong sa mga ibang ahensiya sa paghahanap ng pondo para sa sanktwaryo at saka para po sa mga magbabantay nito. Tutulong kaming humanap ng karagdagang pondo, pero hindi po namin ma-i-pa-pangako kasi po nag-a-apply lang po kami. Hindi po tulad sa LGU, mayroon iyan regular na tax collection, mayroon din silang tinatawag na IRA nga nagapo diay gobyerno tayo nga national nga kada tawen, adda IRA nga imted ti national government tayo kada munisipyo.

**On priority wardens: Local volunteer wardens will be suggested, and the list of those who expressed to become wardens will be provided to the Municipal Mayor for recommendation.**

CARL: Ako po hindi ko po masasagot iyan; siguro po ang mangyayari po diyan, sana po maipasa na nga po yung ordinansa ng Sangguniang Bayan. Pero po kapag naipasa iyan, kakausapin po natin si incoming mayor Al Llopis kasi sana LGU din ang maglalaan niyan at sila din ang mag-a-appoint. Pero i-su-suggest po namin na ang kunin na magbabantay dito



na katulong ng pulis at mga tanod ng barangay ay iyon din pong mga taga dito at sa mga gilid po ng sankwtaryo para may magbabantay sa pagpasok at paglabas sa paligid ng sankwtaryo. Maryoon din po sa mga nakaraan nating meeting, adda nagvolunteer nga kayat agwarden ditoy buski, i-su-suggest din po natin iyong mga pangalan na iyon. Kung maryoon pa po sa inyo na gustong maging volunteer warden ditoy buski, ipakaammo yo kadakami tapno ma-i-rekomenda namin kay incoming mayor Al. Tapos sa kung magkano, hindi ko po sigurado. Depende po sa budget na makukuha.

**Mr. Emias Abel commented to keep the forest as is; Longog has many limestone forests that naturally cannot be used for cultivation.**

EMIAS: Agsubli tayo man daytoy apo ditoy umuna nga saludsud. Adda kami ditoy Longog kadua mi nga napan marmarka ti titulo, kunada idi. Nakita idiy nga addu dagi ti luglugar nga saan mabalin ma-okupar. Kasla koma daytoy kaparingitan, daytoy ti maibilang ti virgin forest, dagidiay ket haan mabalin nga mapatituluhan.... Makita da nga bakante na dida pay ammo nga lugar, \_\_ nga bakante madi patituluan.

CARL: Kung ako po ang tatanungin ninnyo ng opinion, sa akin din po lalo na kung paringit nga po, kaparingitan na haan pay napukan o nauma idi, sana po uiwag na nating pa-okupahan kasi po nagbibigay din po iyon ng tubig sa paligig ng mga uma. Iyon po yung opinion ko. At tingin ko po yung iba sa DENR ganoon din po yung paniniwala nila na kapag forest po, hindi po patitulohan. Ang isa ko pa po masasabi diyan: kung mayroon kayong alam na may lupa na tititulohan na sakop ng virgin forest, pwede poi yang i-apila sa DENR kasi po sa pag-i-isyu ng titulo, mayroon po iyang proseso; kunyari kung tama ba na nag-o-okupa talaga yung tao doon sa ma-ti-titulohang lupa. Kasi kung hindi, pwede po iyong i-apila. Maganda po sana kung andito yung DENR para sila po yung magsagot noon. Pero sabi po nila pupunta po sila sa dito sa Calayan ngayon, sana umakyat din sila ngayon. Pero kung hindi po sila makadating ngayon, mayroon din po kaming schedule sa July 03, tono Sabado, alas nuebe sa SB Session Hall. Gumawa po kami ng mapa na kasla batit nga Calayan nga adda daydiay banbantay na; para talagang porma ti kabanbantayan ti Calayan. Doon po namin ilalagay kung asan iyong sanktwaryo. Ipre-presenta po namin iyon sa LGU saka sa Sangguniang Bayan at sa lahat ng interesado. Imbetado rin po kayo doon kung makakapunta kayo sa Poblacion sa Sabado para po makita niyo rin yung mapang iyon. Ipre-presenta po namin iyon. Sana po andiyan pa rin ang DENR pagdating ng Sabado tapos kung may tanong po kayo baka po maitanong din. Kung may mga tanong po kayo ngayon, itatanong din po namin sa DENR kapag naka-usap po namin sila.

EMIAS: .... Ngamin, daytoy sakop ti agriculture zone, ti panagkita mi nga tagaditoy, nalawlawa daytoy kaparingitan ngem daytoy lapag(?)...Daytoy lapag, daydiay banger na paringit. Kayat nga nasawen daytoy mabalin nga pagmulaan .... dakel daydiay bakante kalawa daydiay mabalin nga mapagbiagan nalawlawa daytoy kaparparingitan. Konak uray nu awan sumardeng paringit ti mang\_\_\_.

CARL: Maganda nga po iyun, may natural na nagsasabi sa atin na huwag magputol. Mayroon pa pong gustong magtanong? Suggestion?

**Mr. Efren Cangas asked if lands neither within the sanctuary nor A&D can be titled. Mr. Oliveros replied that this would be a long process as his land should be reclassified first. However, there are legal instruments that can be employed (ISF, TLA).**

EFREN CANGAS: Daydiay yanmi idiy ket haan met sakop ti sanctuary at saka haan pay nasakop ti release. Kayat ko nga nasawen sir, nu mabalin koma nagapo ta haan ko siguro

	<p><i>maatendaran diay Centro daydiay kwa ti DENR. Mabalin nga pakidamag yo sir nu mabalin daydiay nga mapatituluhan.</i></p> <p><i>CARL: Sa pagkakaalam po namin kung pwede pong patituluhan iyon ay mahabang proseso. Kasi po ang DENR mayroon po silang mapa kunyari pos a Calayan, mayroon po silang mapa kung ano ang tinatawag na release o A&amp;D o alienable and disposable. Ditoy baba, karamihan diyan sa baba A&amp;D, uray daytoy Dilam; dito sa Longog mayroon din silang Alienable and Disposable. Yung matataas ang slope niya, hindi po nila iyon ginagawang A&amp;D. Ngayon sa batas kasi, kung hindi siya alienable and disposable, hindi siya pwedeng mapa-titulohan. Kung hindi siya alienable and disposable, and tawag po sa kanya ay timberland o kaya pasto. Kapag timberland din po hindi po iyan napapatituluhan. Pero mayroon din po silang ISF na tinatawag. Iyan po yung parang substitute nila sa titulo. Hindi po iyon pagmamay-ari pero stewardship lang po. Tagapag-alaga lang po ng gubat. Pwede kang magtanim pero dapat aalagaan mo yung gubat sa paligid. Mayroon ding TLA – timberland lease agreement. Kaya po ang masasabi ko sa kaso ninyo, tingin ko po mahabang proseso po iyon ng pagpapatitulo kasi kailangan muna maging alienable and disposable bagomapa-titulohan. Kahit po dito, napansin po namin sa loob ng Longog, mayroon pong uma na labas po sa tinatawag na release. Kaya sa tingin kop o mahahirapan po tayo magpatitulo dahil sa depenasyon po talaga ng DENR ang binibigyan lang po ng titulo ay yung release. Maganda din po na nagpunta dito ang DENR at sinurvey yung mga lupa dito sa Longog kasi po yung basehan nila ng alienable and disposable dati ay 1935 pa ginawa at yung mga gumawa noon ay hindi pa sila nakarating sa Calayan. Tumingin lang sila sa mapa kasi tiningnan lang nila kung ano yung patag pero hindi po nila alam na marami diyan kaparingitan. Kahit po sa Pilid na marami nang bahay, hindi pa po siya napapa-titulohan kasi hindi pa po siya release. Kaya matagal pa po iyan bago mapatituluhan.</i></p>
12:05	<p>Signature Campaign Mr. Jonald Reynon and Mr. Randy Ventura led the signature campaign. We encouraged the community members to enjoin us in lobbying for the wildlife sanctuary.</p>
12:30	<p>Group Photo</p>
	<p>Lunch</p>

**PROGRAM**  
**Wildlife Sanctuary Public Presentation**

<b>Time</b>	<b>Activity</b>
09:00	Registration Mr. Ryan Alvero, Mr. Jonald Reynon facilitated the registration.
10:00	Invocation and National Anthem Ms. Haidee Duerme, President of the Supreme Student Government of Calayan High School led the invocation, followed by the singing of the Philippine National Anthem led by Ms. Princess Cobo, also from the Calayan High School.
10:05	Introduction Ms. Cynthia Layusa introduced the team behind Isla Biodiversity Conservation, Inc., and acknowledged the representatives from the LGU, barangay officials, religious sector, academe, the youth and community members.
10:07	Background A PowerPoint presentation by Ms. Cynthia Layusa on the process undertaken in the establishment of the sanctuary: <ul style="list-style-type: none"> <li>• Participatory Resource Mapping and Consultation, Sitio Longog May 2007</li> <li>• Audience with the SB and key LGU personnel, SB Session Hall, May 2008</li> <li>• Community Consulation in Sitio Longog, May 2008</li> <li>• Public Hearing, Barangay Magsidel, September 2009</li> <li>• Temporary Marking of Boundaries, January 2010</li> <li>• Public Consultation and Resource Mapping, Sitio Longog, June 2010</li> <li>• Reports and Proceedings: Establishing a Wildlife Sanctuary in Sitio Longog, Calayan Island, 2008 and 2009</li> <li>• Outputs of the consultations including the proposed boundaries, resource mpa and rules and regulations</li> </ul>
10:20	Rules and Regulations Mr. Carl Oliveros explains the provisions of the wildlife sanctuary, and explains the design of the sanctuary with respect to the community in Sitio Longog. Mr. Oliveros shares the next steps to be done in terms of establishing the sanctuary, and highlights the need for the sanctuary if the community wants to conserve their forest and watershed.
10:32	Presentation: 3D Map Mr. Carl Oliveros and Mr. Jameson Reynon presented the 3-Dimensional Map of Calayan to the public. The 3-D Map of Calayan bears the location of residences, infrastructures (chapels, schools), burial ground and ricefields in Sitio Longog and in nearby sitios (Pilid, Staka and Rarasi); and the boundaries of the proposed wildlife sanctuary strict protection zone and agriculture zone. The map contains the legend, scale and source of information.
10:40	Open Forum Mr. Oliveros answers questions from the participants. <ul style="list-style-type: none"> <li>• On the question on squatting and displacement, we assured the participants that the design of the wildlife sanctuary takes into consideration the location of houses and ricefields; as agreed upon during the consultations the sanctuary will not occupy lands with existing houses or ricefields. Thus, there will be no need to relocate the community. This is provided that no new houses will be erected or lands opened within the sanctuary once it is</li> </ul>

	<p>officially established.</p> <ul style="list-style-type: none"> <li>On a question by Mr. Constante Ventura, CENRO-DENR Sanchez Mira representative Mr. Oliver Padua explained the two surveys that were conducted by the DENR in March and May, 2010: the first being the survey for land title applications; the second was for the delineation of forest zone and A&amp;D demarcation. Mr. Padua explained that lands that do not fall within the A&amp;D must be applied for reclassification by the land applicants.</li> </ul>
11:00	<p>Recess: Signature Campaign and 3-D Map Viewing</p> <p>The Municipal Mayor and Vice Mayor requested for a recess as a guest to the island just arrived and was to meet with the top LGU officials. During the break, we solicited the support of the participants towards the sanctuary by joining the signature campaign.</p> <p>The participants also took the opportunity to view the 3-D Map. The team answered questions from the participants on the construction of the 3-D Map, the boundaries of the sanctuary and the community residing or farming in Longog.</p>
11:40	<p>Turn-Over Ceremonies</p> <p>Isla Biodiversity Conservation, led by Isla President, Mr. Carl H. Oliveros and field assistant Mr. Jameson Reynon, officially turned-over the 3-Dimensional Map to the local government unit of Calayan led by Hon. Mayor Alfonso Llopis and Hon. Vice Mayor Florencio De Guzman, Jr. together with the members of the Sangguniang Bayan.</p>
11:47	<p>Inspirational Message</p> <p>Hon. Alfonso M. Llopis, Municipal Mayor of Calayan, Cagayan delivered an inspiration message to the participants. Environmental protection is one of his top priorities as municipal mayor, thus the wildlife sanctuary has his full support.</p>
11:53	<p>Group Photo</p>

## PROCEEDINGS

### **3-Dimensional Mapping**

The objective of the 3-Dimensional Map of Calayan is to provide the community with a visual, scaled representation which shows the location of the proposed wildlife sanctuary, residences and ricefields in Sitio Longog. The map aims to provide information and appreciation towards the sanctuary and its boundaries, while showing local residences that the resource mapping activities and consensus made during workshops are taken into consideration in designing the proposed wildlife sanctuary.

The island of Calayan has a land area of 197 sq. km. The highest elevation is 499 masl. We made the 3-Dimensional Map of Calayan Island with the following in mind: 1.) materials can be transported through land and sea from Manila to Calayan; 2.) water-proof; 3.) practical and effective; 4.) doable; can be replicated and modified as need arises; and 5.) fun and dynamic that would promote team spirit among volunteers both Manila- and Calayan-based. The publication of PAWB-DENR "Manual on Participatory 3-Dimensional Modeling for Natural Resource Mapping: Essentials of Protected Area Management in the Philippines, Volume 7" (Rambaldi and Callosa-Tarr, 2000) was very useful in planning for the activity; however, we altered some of the materials and methods to fit our resources and set-up.

The resulting map has a scale of 1:18,182. The map shows the boundaries of the proposed wildlife sanctuary and agriculture zone, the location of validated infrastructures (houses, schools and chapels) and rice fields within the agriculture zone and nearby sitios. The 3-D map was officially presented to the local government unit of Calayan at the turn-over ceremony during the Public Presentation on July 03, 2010 at the Sangguniang Bayan Session Hall. Below is the list of materials used and a photo-documentation of the process.

#### **Materials:**

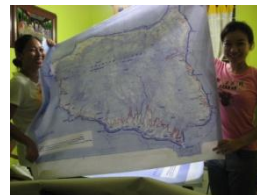
- Topographic map
- Enlarged topographic map
- Crayons
- Cutters and Scissors
- Extra blade (scalpel is useful)
- Rubber mats (others would suggest corrugated boards)
- Plywood
- Bottles of rugby
- Bottles of PVA glue
- Instant glue
- Latex paints (white, blue, green)
- Acrylic paint
- Paint brushes (different sizes)
- Rolls and rolls of tissue (lots of)
- Plastic container for water, glue and paint
- Dressmaker's pins
- Assorted colors of nail polish
- Yarn

- Thread
- Thumb tacks
- Sticker paper
- Cut-out letters
- Snacks for hardworking volunteers
- Sand

## Methodology:

### *In Manila:*

1. We obtained a topographic map of Calayan with a scale of 1:50,000 from the NAMRIA. We had this digitized, enlarged and made 13 blueprint copies in Manila.
2. Calayan's highest elevation is 499 masl. Given this, and the thickness of the mats, we determined that the interval of each mat would represent 40 meters in elevation. Using crayons, we traced each 40-meter interval elevation in separate topographic map. We assigned different colors per elevation to help us build the pieces together once cut.



3. Instead of corrugated boards, we were recommended to explore the possibility of using rubber mats because they are waterproof and more durable for travel. We bought 15 rubber mats from Quiapo. These mats are the same material as your sturdy rubber slippers. Several days and 48 hours of travel via tricycle, taxi, bus, van and boat later, the rubber mats proved to be the effective choice as we were also able to use the mats as sleeping bags; and none were destroyed during frequent transportation transfers.
4. Each mat was at least 1mx1m, with a thickness of .4 mm. One mat would represent 1 elevation. We pasted one topographic map in one rubber mat, evenly spreading a thin layer of rugby or glue. We placed the topographic map carefully to avoid bubbles underneath.



5. Carefully cut out the mats following the traced line; the desired elevation should remain. Small blade (or scalpel) was more efficient in carving out sharp and hard to reach curves. We labelled the cut-out rubber according to its elevation, especially small pieces, so they won't get lost. We cut majority of the large mats so they would be easier to transport.





### ***In Calayan:***

1. The remainder of the cutting duties were completed in Calayan. Reviewing the topographic map was done to make sure that small pieces are not missed.



2. The rubber was also used to cut out letters for the map essentials: title, northing, legend, source, scale, date. The letters were colored using acrylic paint. As the rubber is absorbent (and black), we painted with a white base color first. Let dry.
3. For the base of the map, measure the plywood to make sure it fits the map and the map essentials. Color with a base of white then blue to represent water. Let dry.



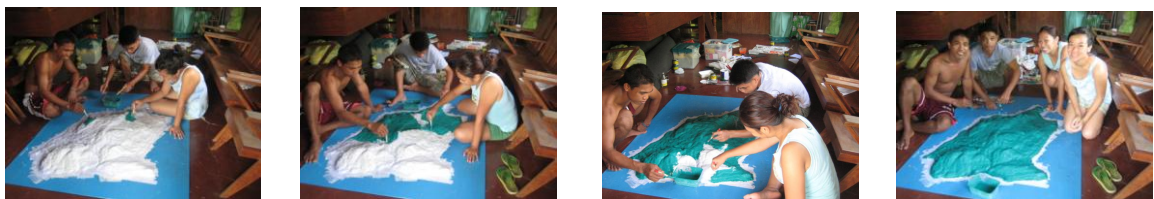
4. Once the plywood is dry and the mat all cut out, we glued the lowest elevation to the plywood with rugby to make sure the rubber stays flat. The next elevation was glued on top of the previous one, working our way up. For those about to do this, keep the rubber flat at all times and the rugby away from your bare hands.



5. We used the tissue to cover the rubber mats. With a paint brush, we dabbed water and PVA glue to the tissue to keep the mold. We continued putting layers of tissue to come up with more realistic slope. Be prepared to use a lot of tissue, water and glue. Let dry.



6. Once ready, we painted it green and placed sand around the island. To do the latter, spread a thick layer of white glue and water mixture (1:1 ratio) around the island.





7. Sprinkle the sand. To create the effect of water, add blue paint to the glue and water mixture (2:1 ratio).



8. We used dressmaker pins to symbolize the infrastructure and rice fields. Colors were assigned for each legend: yellow – houses, blue – infrastructures, green – rice fields, black – burial ground. One pin represents one infrastructure or rice field. As the pins come in assorted colors, we used different nail polish to recolor the heads of the pins. In most cases, a base coating was necessary to ensure uniformity of pin colors. Let dry.



9. Using a thin paintbrush (or makeshift bottle squeezer) we painted the streams and rivers, while refer to the topographic map for the slope and actual location of streams.
10. In our case, we inputted the GPS-validated points of houses and ricefields in Longog into a GIS software (ArcView 3.2). The resulting map was saved as a JPEG and transported to Adobe Photoshop so we could put in grids.
11. We translated the grids to our 3D map using thread and thumbtacks to make sure that the pins would be placed in the correct location.
12. We referred to the GIS-produced map and Mapsource to validate the placement of the pins. The updated 2D map produced from our last workshop was also useful as reference.
13. The letters of the map essentials was placed.
14. We printed the place name (name of barangays, streams, schools and municipal hall) in sticker paper and attached this to the pins. We used plain-headed dressmaker's pins for names of barangays and streams, while we used the pin designated for infrastructures for schools and municipal hall.
15. Remove the grids and thumbtacks. This should be ready for presentation.



As the rubber mats are non-biodegradable, we did our best to re-use the spare rubber for different purposes: earth pads, corridor de-flooding (small pieces were donated to the UP College of Architecture), mouse pad, fan, bulletin board.

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# Attachments

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Attendance

Revised Proposed Wildlife  
Sanctuary and Agriculture Zone  
Boundaries

Demarcated Alienable and  
Disposable Lands (Unofficial  
coordinates)

Letter

Photos

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## Public Consultation and Participatory Resource Mapping

28 June 2010

Sitio Longog, Calayan Island, Calayan

	<b>Name</b>	<b>Office/ Barangay</b>
1.	Eframim	Sitio Tugod
2.	Tito	Sitio Tugod
3.	Ireneo Orel	Barangay Magsidel
4.	Julian Duerme	Barangay Magsidel
5.	Jose Bumagat	Sitio Pilid, Barangay Dibay
6.	Rogelio Bumagat	Sitio Longog, Barangay Magsidel
7.	Pio Payas	Barangay Magsidel
8.	Perlito Abiva	Sitio Pilid, Barangay Dibay
9.	Patricio Delgado	Sitio Pilid, Barangay Dibay
10.	Vicente Payas	Sitio Longog, Barangay Magsidel
11.	Pedro Payas	Sitio Longog, Barangay Magsidel
12.	Victor Payas	Barangay Dadao
13.	Antonio Payas	Sitio Longog, Barangay Magsidel
14.	Felix Cobico	Sitio Pilid, Barangay Dibay
15.	Elys	Barangay Dibay
16.	Ermelinda Payas	Sitio Longog, Barangay Magsidel
17.	William Duerme	Sitio Pilid, Barangay Dibay
18.	Eteng Orel	Sitio Macarra, Barangay Magsidel
19.	Leo Orel	Sitio Macarra, Barangay Magsidel
20.	Wilmar Duerme	Sitio Pilid, Barangay Dibay
21.	Alvaro Cangas	Sitio Pilid, Barangay Dibay
22.	Francisco	Sitio Pilid, Barangay Dibay
23.	Vicente Gonzales	Kagawad, Barangay Dibay
24.	Daniel Abel	Sitio Macarra, Barangay Dibay
25.	Nehemias Abel	Barangay Dibay
26.	Ruben Payas	Barangay Magsidel
27.	Paz A. Orel	Sitio Longog, Barangay Magsidel
28.	Salvacion A. Cangas	Barangay Dilam
29.	Efren Cangas	Barangay Dilam
30.	Dennis T. Abel	Barangay Magsidel
31.	Orlino Bermejo	Sitio Pilid, Barangay Dibay
32.	Emely Payas	Sitio Longog, Barangay Magsidel
33.	Juan Palo	Sitio Pilid, Barangay Dibay
34.	Celia Bermejo	Sitio Pilid, Barangay Dibay
35.	Relly Abiva	Sitio Pilid, Barangay Dibay
36.	Andy Delgado	Barangay Dibay
37.	Jimmie Payas	Barangay Dadao
38.	Christian Payas	Sitio Longog, Barangay Magsidel
39.	Erlita Ballesteros	Sitio Longog, Barangay Magsidel
40.	Vicente Ballesteros	Sitio Longog, Barangay Magsidel
41.	Carmen Bumagat	Sitio Pilid, Barangay Dibay
42.	Remelyn Bumagat	Sitio Pilid, Barangay Dibay

43.	Jonalyn Duero	Sitio Longog, Barangay Magsidel
44.	Elena Duero	Sitio Longog, Barangay Magsidel
45.	Carl H. Oliveros	President, Isla Biodiversity Conservation
46.	Cynthia Adeline A. Layusa	Isla Biodiversity Conservation
47.	Jameson B. Reynon	Field Assistant, Isla Biodiversity Conservation
48.	Camille M. Cammayo	Volunteer, Isla Biodiversity Conservation
49.	Jason Fernandez	Volunteer, Isla Biodiversity Conservation
50.	Rocky Reynon	Volunteer, Isla/ Barangay Magsidel
51.	Jonald Reynon	Volunteer, Isla/ Barangay Magsidel
52.	Renz Escalante	Volunteer, Isla/ Barangay Magsidel
53.	Ryan Alvero	Volunteer, Isla/ Barangay Magsidel
54.	Randy Ventura	Volunteer, Isla/ Barangay Magsidel

**Public Presentation of the Proposed Wildlife Sanctuary in Sitio Longog**

03 July 2010

SB Session Hall, Calayan Island, Cagayan

	<b>Name</b>	<b>Office/ Barangay</b>
1.	Hon. Alfonso M. Llopis	Municipal Mayor
2.	Hon. Florencio De Guzman, Jr.	Municipal Vice Mayor
3.	Hon. Norberto G. Paypon	Sangguniang Bayan Member
4.	Hon. Tito E. Maquiraya	Sangguniang Bayan Member
5.	Hon. Rico Felicisimo	Sangguniang Bayan Member
6.	Hon. Nelson Ventura	Sangguniang Bayan Member
7.	Hon. Teresita P. Singun	Sangguniang Bayan Member
8.	Hon. Elena M. Llopis	Sangguniang Bayan Member
9.	Hon. Rodel D. Maquiraya	ABC President/ Barangay Captain, Centro 2
10.	Hon. Nestor Heruela	Barangay Captain, Cabudadan
11.	Roque C.Ventura	Barangay Captain, Magsidel
12.	Mary Anne Pataueg	Office of the Mayor
13.	Lino Llopis, Sr.	Municipal Agriculturist
14.	Reginold Arellano	MPDC Office
15.	Oliver B. Padua	CENRO-DENR, Sanchez Mira
16.	Emerita D. Llopis	DepEd, Calayan High School
17.	Tito Payas	DepEd, Calayan High School
18.	Carmen Escalante	DepEd, Calayan High School
19.	Kristel O. Ventura	Barangay Magsidel/ CHS
20.	Erika Jones D. Pataueg	Barangay Poblacion/ CHS
21.	Krishelle O. Ventura	Barangay Magsidel/ CHS
22.	Marian Lizzele J. Espiritu	Barangay Magsidel/ CHS
23.	Hannah Jem G. Tomas	Barangay Centro 2/ CHS
24.	Jasmine M. Rosales	Barangay Poblacion/ CHS
25.	Christine Bernadeth B. Noblejas	Barangay Dadao/ CHS
26.	Emma D. Paypon	Barangay Cabudadan/ CHS
27.	Cathrine E. Duero	Barangay Dilam/ CHS
28.	Realyn B. Cobo	Barangay Poblacion/ CHS
29.	Cherry Anne Suarez	Barangay Centro 2/ CHS
30.	Cenyfa Ballada	Barangay Poblacion/ CHS
31.	Princess V. Cobo	Barangay Magsidel/ CHS
32.	May Joy Dalumay	Barangay Dadao/ CHS
33.	Rose Ann Delgado	Barangay Centro 2/ CHS
34.	Cherlyne Simon	Barangay Centro 2/ CHS
35.	Querobin Espiritu	Barangay Centro 2/ CHS
36.	Lester Joseph Rumias	Barangay Poblacion/ CHS
37.	Christopher A. España	Barangay Magsidel/ CHS
38.	Freddie Orel	Barangay Magsidel/CHS
39.	Milton Ventura	Barangay Magsidel/CHS
40.	Roque Duero	Barangay Dilam/CHS
41.	May D. Gaddawan	Barangay Poblacion/CHS
42.	Ross Fernando	Barangay Centro 2/CHS

43.	Mara Sheidy Asela Simon	Barangay Centro 2/CHS
44.	Agassi Olivas	Barangay Poblacion/CHS
45.	Richard Ramos	Barangay Dadao/CHS
46.	Mamerto de Vera	Barangay Cabudadan/CHS
47.	Jonathan España	Barangay Magsidel/CHS
48.	Christine B. Tibuc	Barangay Poblacion/CHS
49.	Haidee G. Duerme	President, SSG/ CHS
50.	Gizelle E. Castillejos	Barangay Poblacion/CHS
51.	Angelique D. Faylogna	Barangay Centro 2/CHS
52.	Vanna Jocely C. Natividad	Barangay Poblacion/CHS
53.	Christy N. Horlina	Barangay Dadao/CHS
54.	Elly P. Gumarang	Barangay Dadao/CHS
55.	Roderick L. Gutierrez	Barangay Dilam/CHS
56.	Remy M. Bermejo	Barangay Dadao/CHS
57.	Sarah Micalle M. Salvanera	Barangay Centro 2/CHS
58.	Gale Angelica E. Castillejos	Barangay Poblacion/CHS
59.	Ian D. Gaddawan	Barangay Poblacion/CHS
60.	Christopher B. Romero	Barangay Dadao/CHS
61.	Jay Mar E. Enteria	Barangay Dadao/CHS
62.	Kenn Bryan E. Noblejas	Barangay Dadao/CHS
63.	John Reymart G. Pascual	Barangay Dadao/CHS
64.	Mark Jed Antonio	Barangay Dibay/CHS
65.	Jemar Agudera	Barangay Poblacion/CHS
66.	Cedric Posadas	Barangay Centro 2/CHS
67.	Jay Heruela	Barangay Cabudadan/CHS
68.	Irene Joy T. Dican	Barangay Poblacion/CHS
69.	Ruth D. Claramo	Barangay Dadao/CHS
70.	Meloween Duerme	Barangay Dadao/CHS
71.	Juvelyn Arirao	Barangay Dadao/CHS
72.	Christine Joan Salvanera	Barangay Dadao/CHS
73.	Jessalyn Fernando	Barangay Dadao/CHS
74.	Jessa Mae Laurente	Barangay Centro 2/St. Bartholomew's Academy
75.	Eric D. Nuñez	President, Calayan Youth Association
76.	Emely Pagulayan	Kagawad, Barangay Magsidel
77.	Violeta Orel	Kagawad, Barangay Magsidel
78.	Bernabe Patuca	Kagawad, Barangay Magsidel
79.	Melody R. Visario	Kagawad, Barangay Magsidel
80.	Apolonio R. Collado	Kagawad, Barangay Magsidel
81.	Ofelia Genova	Barangay Cabudadan
82.	Constante Ventura	Barangay Magsidel
83.	Jocelyn Bucac	Barangay Magsidel
84.	Jonathan Goze	Barangay Centro 2
85.	Dominador A. Navarro	Barangay Cabudadan
86.	Amor Tomas	Pastor, New Life Church
87.	Norberto Cativa	Pastor, United Methodist Church
88.	Carl H. Oliveros	President, Isla Biodiversity Conservation
89.	Cynthia Adeline A. Layusa	Isla Biodiversity Conservation
90.	Jameson B. Reynon	Field Assistant, Isla Biodiversity Conservation

91.	Camille M. Cammayo	Volunteer, Isla Biodiversity Conservation
92.	Jason Fernandez	Volunteer, Isla Biodiversity Conservation
93.	Rocky Reynon	Volunteer, Isla/ Barangay Magsidel
94.	Jonald Reynon	Volunteer, Isla/ Barangay Magsidel
95.	Renz Escalante	Volunteer, Isla/ Barangay Magsidel
96.	Ryan Alvero	Volunteer, Isla/ Barangay Magsidel
97.	Randy Ventura	Volunteer, Isla/ Barangay Magsidel



**Proposed Boundaries of the Wildlife Sanctuary in Sitio Longog**  
**Revised July 2010**

This is the revised list of coordinates. We made revisions on the sanctuary's proposed boundaries to clear newly opened ricefields/ houses from within the boundaries of the strict protection zone of the sanctuary, in accordance with the agreements from previous community consultations.

No.	Description	Coordinates (WGS 84 Datum)	
		N	E
1	Starts at the source of the western branch of Dibay River/Dakel a Danom downstream along the following points:	N 19° 20' 25.3"	E 121° 24' 41.7"
		N 19° 20' 28.9"	E 121° 24' 44.0"
		N 19° 20' 33.6"	E 121° 24' 43.1"
		N 19° 20' 38.1"	E 121° 24' 41.6"
		N 19° 20' 42.2"	E 121° 24' 39.8"
2	Turns northeast toward the eastern branch of the Dibay River/Dakel a Danom along the following points:	N 19° 20' 44.7"	E 121° 24' 39.8"
		N 19° 20' 47.5"	E 121° 24' 43.9"
		N 19° 20' 49.5"	E 121° 24' 48.5"
		N 19° 20' 52.0"	E 121° 24' 51.1"
3	Follows the eastern branch of the Dibay River/Dakel a Danom upstream along the following points:	N 19° 20' 54.3"	E 121° 24' 54.9"
		N 19° 20' 55.4"	E 121° 24' 59.6"
		N 19° 20' 56.6"	E 121° 25' 03.9"
		N 19° 20' 55.1"	E 121° 25' 09.0"
		N 19° 20' 54.6"	E 121° 25' 14.7"
		N 19° 20' 49.8"	E 121° 25' 18.6"
		N 19° 20' 44.2"	E 121° 25' 18.0"
		N 19° 20' 39.8"	E 121° 25' 17.8"
		N 19° 20' 31.0"	E 121° 25' 15.0"
		N 19° 20' 23.8"	E 121° 25' 21.9"
		N 19° 20' 21.9"	E 121° 25' 26.4"
		N 19° 20' 20.6"	E 121° 25' 42.6"
		N 19° 20' 19.9"	E 121° 25' 42.6"
		N 19° 20' 16.2"	E 121° 25' 39.4"
		N 19° 20' 08.4"	E 121° 25' 44.3"
		N 19° 20' 00.2"	E 121° 25' 45.1"
		N 19° 19' 56.9"	E 121° 25' 47.9"
		N 19° 19' 53.6"	E 121° 25' 55.6"
		N 19° 19' 54.3"	E 121° 26' 02.6"
		N 19° 19' 49.8"	E 121° 26' 16.5"
		N 19° 19' 46.7"	E 121° 26' 21.2"
		N 19° 19' 42.7"	E 121° 26' 26.0"
		N 19° 19' 36.0"	E 121° 26' 29.0"
N 19° 19' 17.9"	E 121° 26' 55.6"		
N 19° 19' 20.1"	E 121° 27' 02.9"		
N 19° 19' 20.3"	E 121° 27' 10.3"		
N 19° 19' 19.6"	E 121° 27' 14.9"		
N 19° 19' 18.8"	E 121° 27' 33.2"		
N 19° 19' 15.7"	E 121° 27' 41.8"		
N 19° 19' 27.9"	E 121° 27' 46.1"		
N 19° 19' 37.8"	E 121° 27' 29.5"		
4	Follows the base of the mountains around Longog Valley through the following points:	N 19° 19' 40.6"	E 121° 27' 21.8"
		N 19° 19' 37.6"	E 121° 27' 17.3"
		N 19° 19' 34.7"	E 121° 27' 10.6"
		N 19° 19' 35.1"	E 121° 27' 04.4"

		N 19° 19' 40.4" N 19° 19' 42.8" N 19° 19' 48.5" N 19° 19' 57.2"	E 121° 27' 03.8" E 121° 26' 58.7" E 121° 26' 57.7" E 121° 26' 55.5"
5	Traverses Longog Valley through the following points:	N 19° 19' 53.7" N 19° 19' 52.5" N 19° 19' 55.3" N 19° 19' 55.8" N 19° 20' 00.8" N 19° 20' 07.2" N 19° 20' 09.3" N 19° 20' 22.5" N 19° 20' 31.3"	E 121° 26' 50.0" E 121° 26' 42.7" E 121° 26' 37.8" E 121° 26' 31.1" E 121° 26' 28.1" E 121° 26' 29.0" E 121° 26' 38.6" E 121° 26' 35.5" E 121° 26' 21.6"
6	Follows the base of the mountains around Longog Valley through the following points:	N 19° 20' 38.6" N 19° 20' 42.1" N 19° 20' 44.5" N 19° 20' 48.5" N 19° 20' 51.1" N 19° 20' 57.0" N 19° 21' 00.3" N 19° 21' 04.6" N 19° 21' 08.9" N 19° 21' 12.1" N 19° 21' 15.7" N 19° 21' 14.1" N 19° 21' 08.6" N 19° 21' 04.9" N 19° 20' 47.8" N 19° 20' 44.8" N 19° 20' 40.7" N 19° 20' 36.8" N 19° 20' 33.3" N 19° 20' 34.4" N 19° 20' 34.7" N 19° 20' 37.0" N 19° 20' 38.4" N 19° 20' 40.6" N 19° 20' 42.0" N 19° 20' 42.2" N 19° 20' 43.2" N 19° 20' 43.3" N 19° 20' 41.3" N 19° 20' 42.9" N 19° 20' 43.0" N 19° 20' 41.9" N 19° 20' 38.1" N 19° 20' 35.9" N 19° 20' 31.6" N 19° 20' 31.7" N 19° 20' 38.2" N 19° 20' 40.4" N 19° 20' 40.8" N 19° 20' 38.4" N 19° 20' 35.1"	E 121° 26' 20.8" E 121° 26' 21.4" E 121° 26' 22.9" E 121° 26' 24.9" E 121° 26' 31.8" E 121° 26' 32.6" E 121° 26' 37.1" E 121° 26' 36.1" E 121° 26' 41.8" E 121° 26' 47.2" E 121° 26' 53.7" E 121° 26' 59.3" E 121° 27' 02.6" E 121° 27' 01.3" E 121° 26' 59.8" E 121° 27' 01.1" E 121° 26' 57.2" E 121° 26' 56.2" E 121° 27' 02.1" E 121° 27' 04.3" E 121° 27' 06.8" E 121° 27' 10.8" E 121° 27' 13.2" E 121° 27' 14.5" E 121° 27' 16.1" E 121° 27' 18.8" E 121° 27' 20.0" E 121° 27' 22.4" E 121° 27' 23.2" E 121° 27' 25.6" E 121° 27' 29.0" E 121° 27' 30.4" E 121° 27' 29.3" E 121° 27' 31.5" E 121° 27' 32.1" E 121° 27' 36.4" E 121° 27' 35.9" E 121° 27' 37.7" E 121° 27' 40.7" E 121° 27' 44.4" E 121° 27' 46.1"

		N 19° 20' 36.5" N 19° 20' 37.2" N 19° 20' 36.9" N 19° 20' 31.9" N 19° 20' 28.6" N 19° 20' 26.6" N 19° 20' 24.6" N 19° 20' 19.5" N 19° 20' 18.1" N 19° 20' 19.5" N 19° 20' 25.5" N 19° 20' 28.2" N 19° 20' 26.3" N 19° 20' 19.7" N 19° 20' 14.6" N 19° 20' 10.1"	E 121° 27' 50.0" E 121° 27' 54.9" E 121° 27' 59.9" E 121° 28' 02.3" E 121° 28' 00.2" E 121° 28' 00.9" E 121° 28' 07.9" E 121° 28' 09.9" E 121° 28' 12.9" E 121° 28' 23.3" E 121° 28' 32.2" E 121° 28' 39.1" E 121° 28' 43.3" E 121° 28' 50.3" E 121° 29' 00.0" E 121° 29' 09.1"
7	Follows the dirt road along the following points:	N 19° 20' 03.5" N 19° 19' 58.2" N 19° 19' 53.8" N 19° 19' 49.6" N 19° 19' 46.2" N 19° 19' 42.6" N 19° 19' 39.0" N 19° 19' 34.2" N 19° 19' 30.6" N 19° 19' 26.7" N 19° 19' 20.0" N 19° 19' 16.9" N 19° 19' 13.3" N 19° 19' 08.6" N 19° 19' 03.0" N 19° 18' 56.9" N 19° 18' 49.4" N 19° 18' 45.5" N 19° 18' 43.0" N 19° 18' 41.0" N 19° 18' 41.2" N 19° 18' 35.5" N 19° 18' 30.6" N 19° 18' 26.5" N 19° 18' 20.6" N 19° 18' 14.1" N 19° 18' 09.1" N 19° 18' 03.2" N 19° 17' 59.1"	E 121° 29' 14.3" E 121° 29' 13.2" E 121° 29' 12.1" E 121° 29' 10.6" E 121° 29' 08.0" E 121° 29' 06.0" E 121° 29' 05.2" E 121° 28' 57.9" E 121° 28' 53.6" E 121° 28' 51.6" E 121° 28' 48.4" E 121° 28' 45.5" E 121° 28' 42.3" E 121° 28' 40.3" E 121° 28' 39.2" E 121° 28' 36.9" E 121° 28' 34.1" E 121° 28' 36.6" E 121° 28' 37.8" E 121° 28' 42.5" E 121° 28' 46.4" E 121° 28' 47.7" E 121° 28' 48.4" E 121° 28' 50.5" E 121° 28' 52.8" E 121° 28' 54.2" E 121° 28' 56.2" E 121° 28' 55.9" E 121° 28' 54.3"
8	Turns west towards the western branch of the Tugod River through the following points:	N 19° 17' 55.6" N 19° 17' 53.7" N 19° 17' 51.8" N 19° 17' 50.5" N 19° 17' 50.2" N 19° 17' 50.1"	E 121° 28' 53.0" E 121° 28' 49.4" E 121° 28' 46.2" E 121° 28' 41.6" E 121° 28' 36.7" E 121° 28' 31.1"

9	Follows the Tugod River upstream along the following points:	N 19° 17' 51.7" N 19° 17' 57.0" N 19° 18' 00.4" N 19° 18' 01.3"	E 121° 28' 26.5" E 121° 28' 23.8" E 121° 28' 20.5" E 121° 28' 15.2"
		N 19° 18' 04.6" N 19° 18' 08.1" N 19° 18' 09.0" N 19° 18' 13.6" N 19° 18' 15.5" N 19° 18' 17.9" N 19° 18' 22.3" N 19° 18' 26.0" N 19° 18' 32.0"	E 121° 28' 10.5" E 121° 28' 06.6" E 121° 28' 02.6" E 121° 28' 01.9" E 121° 27' 58.9" E 121° 27' 55.3" E 121° 27' 55.6" E 121° 27' 53.6" E 121° 27' 54.7"
10	Turns west towards one of the branches of the Balagubag River through the following points:	N 19° 18' 37.7" N 19° 18' 40.4" N 19° 18' 42.9" N 19° 18' 49.1" N 19° 18' 49.9" N 19° 18' 46.8" N 19° 18' 51.1" N 19° 18' 51.0" N 19° 18' 48.3" N 19° 18' 40.3" N 19° 18' 38.1" N 19° 18' 33.3" N 19° 18' 29.6"	E 121° 27' 54.7" E 121° 27' 55.3" E 121° 27' 52.4" E 121° 27' 51.0" E 121° 27' 46.4" E 121° 27' 41.5" E 121° 27' 37.5" E 121° 27' 28.6" E 121° 27' 19.2" E 121° 27' 17.9" E 121° 27' 13.3" E 121° 27' 08.1" E 121° 27' 07.6"
11	Follows one branch of the Balagubag River downstream then upstream along another branch through the following points:	N 19° 18' 25.0" N 19° 18' 20.4" N 19° 18' 05.9" N 19° 18' 05.6" N 19° 17' 53.1" N 19° 17' 41.8" N 19° 17' 40.1" N 19° 17' 39.8"	E 121° 27' 06.8" E 121° 27' 10.3" E 121° 27' 08.7" E 121° 26' 56.5" E 121° 26' 57.3" E 121° 27' 08.5" E 121° 27' 05.9" E 121° 27' 01.5"
12	Follows the ridge of Mt. Bagasul going northwest through the following points:	N 19° 17' 38.9" N 19° 17' 37.2" N 19° 17' 36.4" N 19° 17' 36.3" N 19° 17' 37.7" N 19° 17' 39.6" N 19° 17' 40.1" N 19° 17' 40.0" N 19° 17' 44.2" N 19° 17' 48.9" N 19° 17' 53.0" N 19° 17' 57.4" N 19° 18' 02.1" N 19° 18' 04.7" N 19° 18' 08.7" N 19° 18' 07.3"	E 121° 26' 58.0" E 121° 26' 54.3" E 121° 26' 49.6" E 121° 26' 42.8" E 121° 26' 37.9" E 121° 26' 33.5" E 121° 26' 28.5" E 121° 26' 21.8" E 121° 26' 20.6" E 121° 26' 20.3" E 121° 26' 18.8" E 121° 26' 14.3" E 121° 26' 09.9" E 121° 26' 05.4" E 121° 26' 02.2" E 121° 25' 57.6"

13	Continues northwest along the 300m elevation contour line through the following points:	N 19° 18' 04.2" N 19° 18' 06.1" N 19° 18' 07.2" N 19° 18' 09.9" N 19° 18' 11.6" N 19° 18' 11.8" N 19° 18' 14.3" N 19° 18' 18.0"	E 121° 25' 54.4" E 121° 25' 48.0" E 121° 25' 45.3" E 121° 25' 45.6" E 121° 25' 44.1" E 121° 25' 41.2" E 121° 25' 40.3" E 121° 25' 43.5"
		N 19° 18' 17.9" N 19° 18' 18.4" N 19° 18' 19.8"	E 121° 25' 40.8" E 121° 25' 34.7" E 121° 25' 34.1"
14	Follows a branch of the Kaniwalan Stream downstream then upstream through the following points:	N 19° 18' 21.8" N 19° 18' 20.9" N 19° 18' 20.0" N 19° 18' 18.1" N 19° 18' 20.0" N 19° 18' 23.3" N 19° 18' 27.7" N 19° 18' 31.9" N 19° 18' 38.0" N 19° 18' 42.2"	E 121° 25' 35.5" E 121° 25' 30.9" E 121° 25' 26.5" E 121° 25' 21.8" E 121° 25' 18.3" E 121° 25' 14.8" E 121° 25' 15.3" E 121° 25' 15.9" E 121° 25' 17.8" E 121° 25' 18.7"
15	Continues north-northwest along the 300m elevation contour line through the following points:	N 19° 18' 49.9" N 19° 18' 46.9" N 19° 18' 47.1" N 19° 18' 50.1" N 19° 18' 46.8" N 19° 18' 46.5" N 19° 18' 47.3" N 19° 18' 52.3" N 19° 18' 54.3" N 19° 18' 57.4" N 19° 18' 57.6" N 19° 19' 01.2" N 19° 19' 03.7" N 19° 19' 06.7" N 19° 19' 10.6" N 19° 19' 14.0" N 19° 19' 08.9" N 19° 19' 11.4" N 19° 19' 10.5" N 19° 19' 12.4" N 19° 19' 13.8" N 19° 19' 17.5" N 19° 19' 19.4" N 19° 19' 19.7" N 19° 19' 21.3" N 19° 19' 24.6" N 19° 19' 27.9" N 19° 19' 30.2" N 19° 19' 30.5" N 19° 19' 33.0" N 19° 19' 34.9" N 19° 19' 33.5"	E 121° 25' 17.4" E 121° 25' 16.0" E 121° 25' 13.1" E 121° 25' 11.0" E 121° 25' 08.7" E 121° 25' 06.4" E 121° 25' 04.9" E 121° 25' 06.6" E 121° 25' 10.7" E 121° 25' 11.5" E 121° 25' 06.6" E 121° 25' 05.4" E 121° 25' 06.2" E 121° 25' 05.9" E 121° 25' 08.5" E 121° 25' 08.5" E 121° 25' 01.8" E 121° 25' 00.6" E 121° 24' 53.9" E 121° 24' 52.4" E 121° 24' 50.3" E 121° 24' 56.7" E 121° 24' 55.0" E 121° 24' 52.3" E 121° 24' 48.2" E 121° 24' 50.2" E 121° 24' 49.3" E 121° 24' 52.2" E 121° 24' 55.4" E 121° 24' 56.6" E 121° 24' 54.2" E 121° 24' 50.7"

		N 19° 19' 36.3"	E 121° 24' 48.9"
		N 19° 19' 39.1"	E 121° 24' 50.4"
		N 19° 19' 41.0"	E 121° 24' 48.6"
		N 19° 19' 43.7"	E 121° 24' 46.2"
		N 19° 19' 42.0"	E 121° 24' 42.2"
		N 19° 19' 42.3"	E 121° 24' 38.4"
		N 19° 19' 45.0"	E 121° 24' 36.3"
		N 19° 19' 48.4"	E 121° 24' 36.6"
		N 19° 19' 52.0"	E 121° 24' 36.5"
		N 19° 19' 53.7"	E 121° 24' 40.6"
		N 19° 19' 56.2"	E 121° 24' 44.1"
		N 19° 19' 58.4"	E 121° 24' 41.1"
		N 19° 19' 58.4"	E 121° 24' 37.6"
		N 19° 20' 04.2"	E 121° 24' 38.2"
		N 19° 20' 09.7"	E 121° 24' 38.7"
		N 19° 20' 14.5"	E 121° 24' 38.9"
		N 19° 20' 19.7"	E 121° 24' 40.1"

-nothing follows-

### Proposed Boundaries of the Agriculture Zone Revised July 2010

No.	Description	Coordinates ((WGS 84 Datum)	
		N	E
1	Agriculture Zone	N 19° 20' 30.7"	E 121° 26' 16.9"
		N 19° 20' 20.4"	E 121° 26' 32.5"
		N 19° 20' 11.4"	E 121° 26' 34.5"
		N 19° 20' 09.3"	E 121° 26' 24.0"
		N 19° 20' 00.1"	E 121° 26' 23.4"
		N 19° 19' 51.8"	E 121° 26' 29.4"
		N 19° 19' 50.7"	E 121° 26' 37.0"
		N 19° 19' 48.7"	E 121° 26' 41.8"
		N 19° 19' 50.2"	E 121° 26' 51.3"
		N 19° 19' 52.7"	E 121° 26' 53.4"
		N 19° 19' 46.1"	E 121° 26' 54.6"
		N 19° 19' 39.3"	E 121° 26' 56.5"
		N 19° 19' 37.4"	E 121° 26' 59.8"
		N 19° 19' 34.3"	E 121° 26' 59.8"
		N 19° 19' 31.2"	E 121° 27' 04.1"
		N 19° 19' 31.4"	E 121° 27' 12.4"
		N 19° 19' 35.1"	E 121° 27' 20.9"
		N 19° 19' 36.6"	E 121° 27' 23.3"
		N 19° 19' 34.3"	E 121° 27' 28.7"
		N 19° 19' 25.6"	E 121° 27' 41.5"
		N 19° 19' 20.5"	E 121° 27' 39.8"
		N 19° 19' 22.4"	E 121° 27' 34.0"
		N 19° 19' 23.5"	E 121° 27' 15.3"
		N 19° 19' 23.9"	E 121° 27' 10.5"
		N 19° 19' 23.7"	E 121° 27' 03.0"
		N 19° 19' 21.9"	E 121° 26' 56.2"
		N 19° 19' 39.1"	E 121° 26' 31.9"
		N 19° 19' 45.4"	E 121° 26' 28.8"
		N 19° 19' 49.9"	E 121° 26' 23.3"
		N 19° 19' 52.9"	E 121° 26' 18.2"

	N 19° 19' 56.1"	E 121° 26' 11.3"
	N 19° 19' 57.8"	E 121° 26' 02.8"
	N 19° 19' 57.0"	E 121° 25' 56.9"
	N 19° 19' 59.6"	E 121° 25' 51.0"
	N 19° 20' 02.8"	E 121° 25' 48.5"
	N 19° 20' 09.1"	E 121° 25' 48.1"
	N 19° 20' 15.7"	E 121° 25' 43.6"
	N 19° 20' 19.5"	E 121° 25' 47.2"
	N 19° 20' 21.7"	E 121° 25' 46.1"
	N 19° 20' 23.5"	E 121° 25' 46.8"
	N 19° 20' 24.9"	E 121° 25' 27.9"
	N 19° 20' 26.6"	E 121° 25' 24.3"
	N 19° 20' 32.3"	E 121° 25' 18.7"
	N 19° 20' 34.0"	E 121° 25' 18.6"
	N 19° 20' 37.4"	E 121° 25' 24.4"
	N 19° 20' 36.5"	E 121° 25' 30.3"
	N 19° 20' 34.6"	E 121° 25' 34.1"
	N 19° 20' 34.0"	E 121° 26' 14.5"
	N 19° 20' 30.7"	E 121° 26' 16.9"
	N 19° 19' 49.9"	E 121° 26' 23.3"
	N 19° 19' 52.9"	E 121° 26' 18.2"
	N 19° 19' 56.1"	E 121° 26' 11.3"
	N 19° 19' 57.8"	E 121° 26' 02.8"
	N 19° 19' 57.0"	E 121° 25' 56.9"
	N 19° 19' 59.6"	E 121° 25' 51.0"
	N 19° 20' 02.8"	E 121° 25' 48.5"
	N 19° 20' 09.1"	E 121° 25' 48.1"
	N 19° 20' 15.7"	E 121° 25' 43.6"
	N 19° 20' 19.5"	E 121° 25' 47.2"
	N 19° 20' 21.7"	E 121° 25' 46.1"
	N 19° 20' 23.5"	E 121° 25' 46.8"
	N 19° 20' 24.9"	E 121° 25' 27.9"
	N 19° 20' 26.6"	E 121° 25' 24.3"
	N 19° 20' 32.3"	E 121° 25' 18.7"
	N 19° 20' 34.0"	E 121° 25' 18.6"
	N 19° 20' 37.4"	E 121° 25' 24.4"
	N 19° 20' 36.5"	E 121° 25' 30.3"
	N 19° 20' 34.6"	E 121° 25' 34.1"
	N 19° 20' 34.0"	E 121° 26' 14.5"
	N 19° 20' 30.7"	E 121° 26' 16.9"

-nothing follows -



**Alienable and Disposable Lands (A&D) Coordinates  
Unofficial**

We visited the same markers established by the DENR's Regional Assessment Team to record the boundaries of the Alienable and Disposable Lands (A&D) in Sitio Longog and Staka. Below is the list of coordinates. Note that these are unofficial coordinates and were only used to validate the boundaries of the proposed wildlife sanctuary, as well as for presentation during the Public Consultation in Sitio Longog.

	<b>N</b>	<b>E</b>	<b>Notes</b>
<b>Longog a Bassit</b>			
1.	N 19° 19' 56.1"	E 121° 26' 11.3"	Gilid ng bukirin ni Auntie Elena
2.	N 19° 19' 57.8"	E 121° 26' 02.8"	Lupain ni Ruben Payas
3.	N 19° 20' 01.7"	E 121° 25' 55.8"	Katabi ng bahay ni Lino Payas; sa puno ng suha
4.	N 19° 20' 04.6"	E 121° 25' 51.6"	Sa lupain ni Lino Payas; katabi ng niyog at anas
5.	N 19° 20' 09.1"	E 121° 25' 48.1"	Sa may ilog gawing hilaga ni Lino Payas
6.	N 19° 20' 15.7"	E 121° 25' 43.6"	Katabi ng narra
7.	N 19° 20' 19.5"	E 121° 25' 47.2"	Sa lupain ni Domingo Ramos; sa puno ng agandong
8.	N 19° 20' 23.5"	E 121° 25' 46.8"	Sa lupain ni Domingo Ramos
9.	N 19° 20' 29.3"	E 121° 25' 50.8"	Sa gilid ng lupain ni Victor Payas
10.	N 19° 20' 26.2"	E 121° 25' 51.9"	Sa gilid ng kainging ni Amboy Duero
11.	N 19° 20' 23.7"	E 121° 25' 56.0"	Katabi ng bahay ni Amboy Duero
12.	N 19° 20' 02.7"	E 121° 26' 17.0"	Sa may ilog katabi ng punong anas
13.	N 19° 20' 03.6"	E 121° 26' 18.4"	Sa may niyogan ni Auntie Elena gawing hilaga ng ilog
14.	N 19° 20' 03.6"	E 121° 26' 18.5"	Sa may puno ng sidai
15.	N 19° 20' 07.2"	E 121° 26' 18.2"	Kaingin ni Emias Abel
16.	N 19° 20' 13.6"	E 121° 26' 17.8"	Gilid ng kaingin ni Victor Payas; sa may malaking bato
17.	N 19° 20' 00.1"	E 121° 26' 23.4"	Sa may puno ng niyog malapit sa bahay ni Auntie Paz
18.	N 19° 20' 21.7"	E 121° 25' 46.1"	Puno ng agandong sa lupain ni Domingo Ramos
19.	N 19° 20' 25.2"	E 121° 26' 03.4"	Putol na narra
20.	N 19° 19' 52.9"	E 121° 26' 18.2"	Gilid ng daan sa may puno ng narra
21.	N 19° 20' 10.3"	E 121° 26' 21.4"	Dating bahay ni Auntie Paz sa may punong samak
<b>Longog a Dakkel</b>			
1.	N 19° 19' 51.8"	E 121° 26' 29.4"	Gilid ng dating kaingin at palayan nila Auntie Elena
2.	N 19° 19' 50.7"	E 121° 26' 37.0"	
3.	N 19° 19' 48.7"	E 121° 26' 41.8"	
4.	N 19° 19' 40.8"	E 121° 26' 36.1"	
5.	N 19° 19' 39.5"	E 121° 26' 52.2"	
6.	N 19° 19' 46.6"	E 121° 26' 52.8"	Gilid ng kaingin nila Roger, Jose at Arnel Bumagat
7.	N 19° 19' 50.2"	E 121° 26' 51.3"	
8.	N 19° 19' 52.7"	E 121° 26' 53.4"	
9.	N 19° 19' 46.1"	E 121° 26' 54.6"	
10.	N 19° 19' 39.3"	E 121° 26' 56.5"	
11.	N 19° 19' 37.4"	E 121° 26' 59.8"	Kaingin nila Efraim Balmores at Joel Seguban
12.	N 19° 19' 34.3"	E 121° 26' 59.8"	
13.	N 19° 19' 31.2"	E 121° 27' 04.1"	
14.	N 19° 19' 28.1"	E 121° 27' 03.5"	

15.	N 19° 19' 28.1"	E 121° 27' 07.1"	
16.	N 19° 19' 26.6"	E 121° 27' 09.3"	Gilid ng palayan ni Efraim Balmores
17.	N 19° 19' 31.4"	E 121° 27' 12.4"	
18.	N 19° 19' 29.1"	E 121° 27' 15.9"	
19.	N 19° 19' 35.1"	E 121° 27' 20.9"	
20.	N 19° 19' 36.6"	E 121° 27' 23.3"	Palayan ni Constante Ventura
21.	N 19° 19' 34.3"	E 121° 27' 28.7"	
22.	N 19° 19' 29.0"	E 121° 27' 33.0"	Likod ng bahay ni Inting Orel
23.	N 19° 19' 25.6"	E 121° 27' 41.5"	Palibot sa lupa ni Luciano Genova
24.	N 19° 19' 20.5"	E 121° 27' 39.8"	
25.	N 19° 19' 22.4"	E 121° 27' 34.0"	
26.	N 19° 19' 26.4"	E 121° 27' 32.7"	
27.	N 19° 19' 27.2"	E 121° 27' 29.0"	Gilid ng palayan ni Inting Orel
28.	N 19° 19' 23.5"	E 121° 27' 15.3"	Efraim Balmores
29.	N 19° 19' 23.9"	E 121° 27' 10.5"	
30.	N 19° 19' 23.7"	E 121° 27' 03.0"	Dating palayan nila Dalong na nabili nila Efraim Balmores at Vincent Tan
31.	N 19° 19' 21.9"	E 121° 26' 56.2"	
32.	N 19° 19' 25.9"	E 121° 26' 56.9"	
33.	N 19° 19' 26.0"	E 121° 26' 52.2"	
34.	N 19° 19' 28.1"	E 121° 26' 41.9"	Dating kaingin ni Virgilio Bumagat
35.	N 19° 19' 30.4"	E 121° 26' 37.9"	
36.	N 19° 19' 39.1"	E 121° 26' 31.9"	Gilid ng lupa ni Julian Duero
37.	N 19° 19' 46.3"	E 121° 26' 33.0"	
38.	N 19° 19' 45.4"	E 121° 26' 28.8"	
39.	N 19° 19' 49.9"	E 121° 26' 23.3"	
40.	N 19° 20' 09.3"	E 121° 26' 24.0"	
<b>Staka</b>			
1.	N 19° 17' 41.9"	E 121° 28' 10.2"	East of road to Longog
2.	N 19° 18' 19.0"	E 121° 27' 44.6"	Inside kadaanan of Manong Mancio Duerme; east of trail to Longog
3.	N 19° 18' 35.2"	E 121° 27' 38.8"	Entrance of Efraim's kaingin, beside small creek
4.	N 19° 18' 34.9"	E 121° 27' 32.5"	In front of big alimunos tree 1.5 meters DBH and camulaw tree .5 meters DBH
5.	N 19° 18' 19.9"	E 121° 27' 32.1"	East of small stream; tributary of Balagubag River
6.	N 19° 18' 08.0"	E 121° 27' 37.1"	Inside the agroforest; west of Simplicio Fernando's house
7.	N 19° 17' 59.9"	E 121° 27' 36.3"	West edge of Renato Fernando's kaingin/ agroforest
8.	N 19° 17' 52.9"	E 121° 27' 41.5"	South of Renato Fernando's house; south edge of his farm
9.	N 19° 17' 50.2"	E 121° 27' 44.7"	Corner of Nestor Heruela's farm
10.	N 19° 18' 04.5"	E 121° 27' 56.4"	Inside Luciano Genova's coconut plantation
11.	N 19° 18' 00.2"	E 121° 28' 03.5"	East edge of Nestor Heruela's cornfield
12.	N 19° 17' 55.0"	E 121° 28' 09.1"	North of Cristente Genova's house; edge of cogonal
13.	N 19° 17' 49.6"	E 121° 28' 11.8"	East of Cristente Genova's house; edge of cogonal
14.	N 19° 17' 40.0"	E 121° 28' 03.0"	Middle of Vincent Tan's kadaanan and cogonoal; east of stream
15.	N 19° 17' 34.9"	E 121° 28' 09.2"	South of Rico Genova's land; edge of cogonal

**Copy of the Letter from Mr. David Abel**

Read during the Public Consultation held on 28 June, 2010 at Mrs. Elena Duero's Residence, Sitio Longog, Calayan Island

June 27, 2010

To our fellow longogense  
c/o Carl Oliveros  
President  
ISA Biodiversity Inc.

Magandang umaga sa inyong Lahat, Pasahega  
na kaya kung dito naitendaram ang meeting sa  
ating lugar.

Magroon sana ahong gustong ipaabot sa ating  
kalugaran et sa ISA

1. Ang mga virgin forest na sakop ng release ay  
dina dapat patulohin pa para maprotektahan  
ang Propusef wild sanctuary.
2. Ang mga dating nahangin o (nauma) ay  
igayon nalang sana and idevelop ang mga  
dating naninirahan sa nasabing lugar.
3. Ando naman ang mga binipisaryaries ang  
mga nakatira sa lungog, kung sakaling  
maaprobahan ang nasabing wild  
sanctuary.

**Copy of the Letter from Mr. David Abel, cont.**

Read during the Public Consultation held on 28 June, 2010 at Mrs. Elena Duero's Residence, Sitio Longog, Calayan Island

f. Alkaya kalmag maipit o kanyag maapektuhan ang buhay o hanap buhay ang mga mamimirahehan dito sa lungag hang sakaling maaprobahan ang na wild sanctuary ang nasabing lugar? (Gaya ng mga sumusunod.)

- a) Paghuli ng sugpo o (udang)
- b) Pag buhay ng mga itlog ng ukong
- c) Pag-tuha ng mga kahoy para sa bahay ang mga mamimirahehan sa loob ng santuario.
- d) Paghuli ng mga bakay ramo.

g. Ang mga "salvage" lumber ay maari pabans ilabag sa loob ng santuario para sa mga dating mamimirahehan? (Within Calayan) ~~study~~

h. Anu naman ang development ang budget para sa mga warden ng wild sanctuary? at sino ba ang dapat maglaan nito? ito bay galing sa LGU, National o Private Sector,

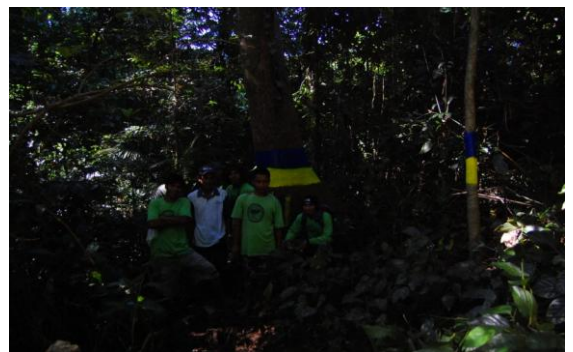
i. Sino ba ang mga Priority na maging warden ng wild sanctuary at magkano naman ang honorarium either Monthly or Quarterly.

Sin ito lang ang paunang katanungan at sugestin para sa ating kalugaran dyan at sa hang 192A





PHOTOS  
**Temporary Marking of Boundaries**



**Plate 1.** S001N (from left to right on top); J.R., R.R., R.A., J.C., L.P., R.E. **Plate 2.** S002N; R.R. L.P., R.E., R.A., J.R.  
**Plate 3.** S003N, (from left to right on top) J.R., L.P., H.J.D.G., R.R., R.A., R.E. **Plate 4.** S004N; R.R., R.A., J.R. J.C., R.E., L.P.  
**Plate 5:** S005N; (from left to right on top) J.C., L.P., R.A., R.E., J.R., R.R. **Plate 6.** S006N; R.E., L.P., R.R., R.A., J.R.  
**Plate 7.** S007N; R., R.A., R.E., L.P., R.R. **Plate 8.** S008N; R.E., R.R., J.R., L.P., J.J.



## PHOTOS Public Consultation



Clockwise from upper left: Participatory Resource Mapping workshop; the economic sector group updating the 2-D map; open forum and plenary discussions; group photo; signature campaign; Mr. Renz Escalante presenting the socio-cultural group's output.



## PHOTOS Public Presentation

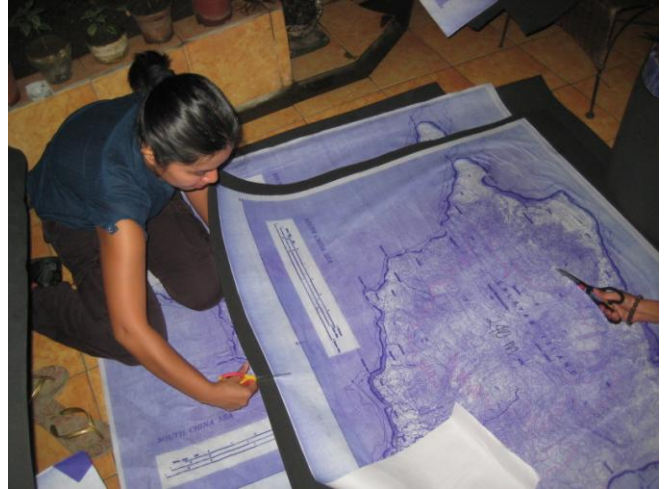


Clockwise from upper left: Mr. Carl Oliveros explaining the design of the sanctuary, presenting the 3-Dimensional Map; official turn-over of the 3-D map to the LGU of the municipality of Calayan; group photo; Hon. Mayor Alfonso Llopis giving an inspirational message; students join in the signature campaign.



## PHOTOS

### 3-Dimensional Map



Clockwise from upper left: tracing the enlarged topographic map; pasting the topo map to the rubber, cutting the rubber; tissue on the map; the final product: 3-D Map of Calayan Island; painting the map green, layering the rubber.



PHOTOS  
**Field Marking and Validation**



Clockwise from upper left: markers/ monuments yet to be placed; team with local guide; A&D marker in Staka; newly opened forest for kaingin; another new agricultural plot marked; A&D marker in Staka.