



**In-Situ
Conservation Project**

Technical Progress Report

September - December 2009



By



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With contributions from Peter Widmann

Puerto Princesa City, Palawan, Philippines

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TECHNICAL PROGRESS REPORT

COUNTRY: PHILIPPINES

PROJECT TITLE: PHILIPPINE COCKATOO CONSERVATION PROGRAM
In-situ Conservation Project

PROJECT DURATION: September - December 2009

PROJECT SITE: Palawan, Philippines

PROJECT COOPERATORS:

Department of Environment and Natural Resources (DENR)
Municipal Government of Narra, Palawan, Philippines
Municipal Government of Dumarán, Palawan, Philippines
Municipal Government of Rizal, Palawan, Philippines
Municipal Government of Patnanungan, Quezon, Philippines
Culasian Barangay Government, Rizal, Palawan, Philippines
Local Protected Area Management Committees (LPAMC)
Sagip Katala Movement-Narra Chapter, Inc. (SKM-NC, Inc)
Sagip Katala Movement-Dumarán Chapter (SKM-DC)
Palawan Council for Sustainable Development Staff (PCSDS)
Polillo Islands Biodiversity Conservation Foundation, Inc.
Concerned agencies and authorities

BY: KATALA FOUNDATION, INC.

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EXECUTIVE SUMMARY

Output 1: Translocation planning

1. The National Workshop for the Development of the Re-introduction Protocol for the Philippine Cockatoo is set on 29-30 March 2010 which will be co-convened by PAWB and KFI.

Output 2: Conservation of cockatoo population on Pandanan Island, Balabac initiated

2. Activities in Pandanan were restricted to coordination between and among local partners while waiting for the issuance of the SEP clearance from PCSDS.
3. The proposal submitted to "Wildlife Without Borders: Critically Endangered Animals Conservation Fund" for the Pandanan project was approved in September.
4. Roost counts at the traditional site yielded 44 individuals in October, indicating that this may be the second-most important cockatoo project site.
5. Four identified poachers were recruited and participated in the Refresher Course for PCCP wildlife wardens in December where they were introduced to the roles and responsibilities of a deputized wildlife warden.

Output 3: Conservation of cockatoo population on Rasa Island, Narra continued

6. The highest count within the period was 225 individuals in September at the traditional roost site. Counts were over 200 individuals from June to December.
7. On mainland Narra, the highest count was observed in October with 63 individuals at Borbon area, the shortest route from Rasa.
8. Rainfall data from PAGASA for November and December hits the lowest since year 2000 with 78 and 12mm respectively.
9. Breeding assessment meeting was conducted in September and major highlights include: flashing of new nest trees, monitoring of artificial nest boxes.
10. Wardens were also busy with landscaping the new aviaries of the Philippine cockatoo at KIEBC e.g. hauling of driftwood to serve as artificial nest trees and perches.
11. PAMB Meeting approved the breeding season work plan for 2010 during its regular meeting in November.
12. The Katala Fun Day during the Palay Festival in October was successfully conducted.
13. Two hundred thousand pesos financial assistance commitment from the municipality was not achieved in 2009 however in 2010 the Mayor's Office has confirmed approval of the amount for 2010.

Output 4: Conservation of cockatoo population on Dumaran Island, Dumaran continued

14. Two Blue-naped parrots were rescued from a trap and immediately released in Omoi Cockatoo Reserve a day after they were stable.
15. Verifications of cockatoo sightings in mangrove and kaingin areas in Lagan, Piawi, Tomoy, Telban, Langkan Bay were conducted also to monitor other possible roost sites.

16. Six artificial nest boxes, four for the Philippine cockatoo and two for Palawan hornbill, were fabricated and installed in Omoi and at the roost site in Lagan in November. None yet have indications of occupation.
17. The LPAMC approved the breeding season work plan for 2010. It was also confirmed during the regular meeting in November that the municipality has approved One hundred fifty thousand pesos financial assistance for the Philippine cockatoo project.
18. There is a pending discussion on the project on *Jatropha* plantation in Dumaran which intends to cover vast areas of the Island thus threatening the integrity of existing forest fragments and the protected area.
19. A Leadership and Team Building Workshop were organized in October by PCCP with selected young Dumaran high school students as participants.
20. The carbon or biomass quantification field work for the reforestation area and the cockatoo reserve in Omoi was done in December in cooperation with the College of Forestry and Environmental Sciences of the Western Philippines University.

Output 5: Conservation of cockatoo population in Culasian Managed Resource Protected Area (CMRPA), Rizal continued

21. The small proposal submitted to CI-Palawan Program for a sub-grant was approved in November. This is a counterpart of the wardening scheme in Culasian. With this approval, wardens extend their patrol and monitoring to Culasian headwaters within the MMPL.
22. The municipality of Rizal also approved and disbursed Seventy-five thousand pesos as financial assistance to the wardening scheme in Rizal from September to December 2009. They have also confirmed their commitment of Two hundred thousand pesos for 2010 during the LPAMC meeting held in September.
23. Cockatoo observations within CMRPA are still scarce with only 3-4 individuals sighted within the PA.
24. Highlight of the LPAMC Meeting conducted in November were the discussions on the on-going kaingin activities with the PA and the illegal fishpond development. All of reported cases did not merit any concrete action from authorities.

Output 6: Polillo Islands Parrot Project promoted

25. Two Philippine cockatoos, Kalangay as locally known, were sighted in Patnanungan between the barangays of Kilogan and Patnanungan Norte. In November, we installed two artificial nest boxes in Sitio Biyo, Brgy. Kilogan.
26. In Burdeos, six Kalangays were spotted in Duyan-duyan Forest in November in the afternoon. Of the two active cockatoo nest trees in Burdeos, only one showed signs of breeding attempt. The nest of *Tanygnathus lucionensis hybridus* nearby indicated signs of nesting.
27. Forester Noelson Caras from DENR Region 4-A validated potentials of remaining Philippine cockatoos and existing forests in Bgy. Anibawan, Burdeos in November along with project staff. He also gave lecture among kaingin farmers in Burdeos during an IEC campaign co-organized by PCCP and municipal officials.
28. The Prior Informed Consent Certificates was signed by both mayors of Burdeos and Patnanungan in December in preparation for the 2010 breeding season monitoring.

Output 7: Katala Institute for Ecology and Biodiversity Conservation further developed

29. Road construction progressed considerably during this last quarter; 342m³ of backfilling materials were used for the access road construction.
30. A team of experts sent by the Turtle Survival Alliance (TSA) assessed the husbandry of the Philippine Forest Turtle and provided advice for the design of the filter and settling pond to improve the water quality in the enclosures.
31. In the last quarter of 2009, we finished the porcupine enclosure including moat, viewing area, den and furniture.
32. The Philippine cockatoo aviaries were finished. The two 4x8x3m aviaries are connected by a sliding door to provide birds the access to both aviaries if feasible. Transfer of the five cockatoos is scheduled for late January or early February.
33. Blue 80 (female) is still bald and manifests behavioral problems. Brazil 78 (female) had temporarily started plucking but stopped after a while and feathers are now fully re-grown. Pandanan 08 or Pinky Pan's continued plucking and is now as bald as Blue, some feather are however re-growing.
34. In late November, Violet 74 (male) suddenly started plucking and then injuring himself at the crop area. He was stitched at PWRCC and was kept there for recovery. This was reported to concerned authorities.
35. All birds are healthy despite these behavioral problems. Fecal analysis of the cockatoos done by the intern revealed negative on parasites. We hope their transfer to the big aviary will stop plucking problems.
36. As of 31 December 2009, KIEBC holds an assurance colony of 34 *Siebenrockiella leytenensis*, 25 *Cuora amboinensis*, 11 *Cyclemys dentata*, and 1 *Dogania subplana*. All were regularly monitored for growth, and dewormed once during the reporting period.
37. Male Southeast Asian Box Turtles mate year-round and some of their female partners have already injured necks from the violent mating procedure.
38. A new project "In situ conservation of the Philippine Forest Turtle *Siebenrockiella leytenensis* through information education" that is funded by NEZS started in October. Likewise in October, another new project "BACOCO – Conservation of the Philippine Forest Turtle *Siebenrockiella leytenensis* in Palawan" funded by Wildlife Without Borders Critically Endangered Animals Conservation Fund of the USFWS started with the project preparations in October as well
39. KFI staff Diverlie Acosta attended one month training in veterinary medicine and animal husbandry in Hong Kong in November.
40. A veterinary student from the University of the Philippines in Los Banos conducted an internship at KIEBC for two weeks in December.

Other highlights

41. The Refresher Course for PCCP wildlife wardens was successfully held on 16-18 December 2009 in Puerto Princesa City with all wardens from all project sites including the new recruits from Pandanan participated in the course.
42. PCCP also participated in the 5th Philippine Bird Festival in Bataan, Luzon.

43. Katala Fun Day was a hit among locals from Bgy. Luzviminda, Puerto Princesa City during its barangay fiesta in December.
44. Two proposals are now pending for approval. One for the study on movements of Philippine Forest Turtle and the other for the construction of a pond water filtering system at KIEBC.
45. A site coordinator for Pandanan was hired and a zookeeper was trained in December.

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ACRONYMS

CE	Conservation Education
CENRO	Community Environment and Natural Resources Office(r)
CEPA	Conservation des Espèces et Des Populations Animales
CMRPA	Culasian Managed Resource Protected Area
DENR	Department of Environment and Natural Resources
IUCN	International Union for the Conservation of Nature and Natural Resources
KEEC	Katala Environmental Education Center
KFI	Katala Foundation, Inc.
KIEBC	Katala Institute for Ecology and Biodiversity Conservation
LGU	Local Government Unit
LPAMC	Local Protected Area and Management Committee
LPF	Loro Parque Fundación
MENRO	Municipal Environment and Natural Resources Officer/Office
MMPL	Mt. Mantalingahan Protected Landscape
MOA	Memorandum of Agreement
PA	Protected Area
PAMB	Protected Area Management Board
PAWB	Protected Areas and Wildlife Bureau
PASu	Protected Area Superintendent
PCC	Palawan Conservation Corps
PCCP	Philippine Cockatoo Conservation Program
PCSD(S)	Palawan Council for Sustainable Development (Staff)
PENRO	Provincial Environment and Natural Resources Office
PFTCP	Philippine Freshwater Turtle Conservation Program
PNP	Philippine National Police
PWRCC	Palawan Wildlife Rescue and Conservation Center
RA 9147	Republic Act 9147 otherwise known as the Wildlife Protection Act
RIWS	Rasa Island Wildlife Sanctuary
SDENRO	Special Deputy Environment and Natural Resources Officer
SKM	Sagip Katala Movement
TWG	Technical Working Group
WPU	Western Philippines University
ZGAP	Zoologische Gesellschaft für Arten- und Populationsschutz

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INTRODUCTION

The Philippine cockatoo *Cacatua haematuropygia*

The Philippine Cockatoo or red-vented cockatoo *Cacatua haematuropygia* is restricted to lowland forest areas and mangroves in the Philippines. Formerly, it could be found all over the archipelago (Dickinson *et al.* 1991). Only in the last decades a rapid decline set in, which brought the species to the brink of extinction (e.g. Boussekey 2000a; Lambert 1994). The reasons for the decline of the populations are (e.g.; Collar *et al.* 1999; Lambert 1994; Widmann *et al.* 2001):

- Habitat destruction, particularly in respect of nesting and food providing trees.
- Persecution as crop pest.
- Poaching for pet trade.
- Potential diseases caused by the introduction of captive birds in the range of wild populations.
- Tropical storms and typhoons

Habitat destruction and poaching are the most important factors threatening the Philippine cockatoo.

Since ten years Katala Foundation Inc. (KFI) implements the PCCP in the Philippines. Comprehensive conservation projects are currently implemented in three sites in Palawan: Rasa Island (Narra), Dumarán Island (Dumaran) and Culasian (Rizal). All three sites contain by now protected areas declared on municipal levels, specifically demarcated to include the remnant cockatoo populations. The most important Philippine cockatoo population on Rasa (which we estimate comprises around twenty percent of the world population) is additionally secured under presidential proclamation as “Rasa Island Wildlife Sanctuary” since February 2006.

A new project site in Pandanan Island in Balabac, southernmost part of Palawan has been started due to the recently improved security situation in the area, where a viable cockatoo population is confirmed and threatened by rampant poaching.

Patnanungan Island, Polillo group of islands in Quezon harbors the only known Philippine cockatoo population in the Luzon Faunal Region (Fig.1).

With the current four project sites in Palawan and one in Luzon it is estimated that at least 25% of the remaining wild population could be covered in PCCP conservation activities. The limiting factor for this estimate is the very incomplete information on the species from the Sulu Archipelago.

Objective of the Philippine Cockatoo Conservation Program

Conservation and restoration of the most viable subpopulations of the Philippine cockatoo and their habitats, including associated flora and fauna under involvement of all key stakeholders, resulting in a down-listing of the species from ‘Critical’ to ‘Endangered’ through reversing its population decline and under consideration of the precautionary principle.

Program Strategy

The main strategy of the programme is to conserve *in-situ* the most important subpopulations of the Philippine cockatoo through adopting participative methods.

The general program strategies are:

- Community-based management of local resources in the framework of Philippine law;
- Capacity-building for local decision-makers and key stakeholders to ensure sustainability of the conservation efforts; and,
- Ecosystemic conservation approach with the Philippine cockatoo as flagship species.

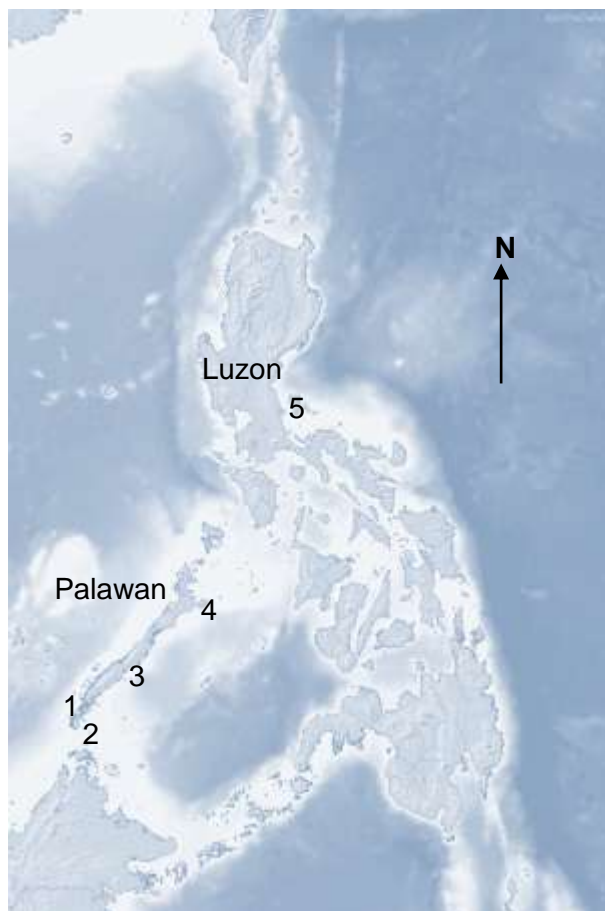


Figure 1. Map of the Philippines indicating sites of the Philippine Cockatoo Conservation Program: 1. Culasian Managed Resource Protected Area, Rizal; 2. Pandanan, Balabac; 3. Rasa Island, Narra; 4. Omoi and Manambaling Cockatoo Reserves, Dumaran; 5. Patnanungan Island, Polillo group of Islands, Quezon.

Deliverables

Objective 1: Translocation planning for Philippine cockatoos

- Develop a translocation protocol involving relevant stakeholders.
- Continue assessment of potential translocation sites and potential remnant populations within the historical range.
- Prepare translocation site, e.g. through conservation education, habitat restoration, legal frame conditions, once a suitable site is identified.
- Further improve facilities to temporarily accommodate birds suitable for translocation (see Objective 7).

Objective 2: Conservation of cockatoo population on Pandanan Island, Balabac initiated

- Establish warden and nest protection scheme.
- Establish linkages to local stakeholders, particularly local government, poachers, farmers, private entities and school teachers.
- Initiate conservation education.
- Conduct research on nest sites and monitor roost site.
- Initiate small livelihood project as confidence building measure.

Objective 3: Conservation of cockatoo population on Rasa Island, Narra continued

- Continue warden scheme.
- Assist and capacitate Protected Areas Management Board in the management of the Philippine Cockatoo and Rasa Island Wildlife Sanctuary and stepwise hand over responsibilities.
- Intensify conservation education for stakeholders, particularly in mainland areas which are regularly frequented by cockatoos.
- Integrate conservation priorities of Rasa in the new development strategy of Narra, particularly regarding tourism infrastructure.
- Continue research on conservation-related aspects of cockatoo biology on Rasa.

Objective 4: Conservation of cockatoo population on Dumaran Island, Dumaran continued

- Continue warden scheme.
- Assist and capacitate Local Protected Areas Management Committee in the management of the Philippine cockatoo, as well as Omoi and Manambaling Cockatoo Reserve.
- Create buffer zones around existing cockatoo reserves, preferably including creation of alternative livelihood options.
- Conduct conservation education and assist in community empowerment for stakeholders.
- Continue research on conservation-related aspects of cockatoo biology, particularly habitat restoration.

Objective 5: Conservation of cockatoo population in Culasian Managed Resource Protected Area, Rizal continued

- Continue warden scheme.
- Assist and capacitate local Protected Areas Management Committee in the management of the Philippine cockatoo and Culasian Managed Resource Protected Area.
- Conduct conservation education for stakeholders.
- Continue research on conservation-related aspects of cockatoo biology.
- Facilitate hand over to local stakeholders, assist in acquisition of tenurial instruments, and secure alternative funding sources.

Objective 6: Polillo Islands Parrot Project promoted

- Continue warden scheme for Philippine cockatoo and include other parrot species.
- Continue conservation education for threatened parrot species within the archipelago.
- Assist in capacity development of local stakeholders for management of threatened parrot populations and their habitats.

Objective 7: Katala Institute for Ecology and Biodiversity Conservation further developed

- Continue development of quarantine area, off- and on-show aviary to accommodate rescued cockatoos and/or cockatoos destined for translocation.
- Improve standard of animal husbandry through employment of full-time zoo keeper and continued capacity building of local partners as assistant keepers.
- Continue landscaping with native species propagated in the Katala nursery.
- Further develop a conservation education programme for local school children and students within the facility.
- Continue submitting proposals to other potential donors.

Description of Project Sites

Rasa Island, Narra, Palawan

Rasa is a small coral island of 8.34 km² area situated in the Sulu Sea, just offshore of the Municipality of Narra, Palawan, Philippines (Fig. 2). About 1.75 km² are covered with coastal forest, mangrove (5.60 km²), cultivated areas (predominantly coconut; 0.39 km²), 0.60 km² are barren or sparsely vegetated sand and coral outcrops. In February 2006, the island became a Wildlife Sanctuary through Presidential Proclamation 1000. In 2008, Rasa Island Wildlife Sanctuary was chosen as Top 13 Bird Watching Sites in the Philippines by the Department of Tourism.

The island is the pilot site of the program since 1998. Key component of this project site is the wardening scheme which involves patrolling and protection of the birds during and outside the breeding season. This scheme has proven to be efficient. It has more than doubled the population of cockatoos on the island over ten years (presently ca. 239 birds).

Rasa Island probably holds the highest population density of Philippine cockatoo that remains in the wild. The world population of Philippine cockatoo was estimated to range between 1,000 to 4,000 individuals (Lambert 1994). More recent estimates put the number of cockatoos remaining in the wild between 870 and 2,300 (Widmann 2001). About 70 to 75% of this population is probably found in Palawan (Boussekey 2000b). This makes Rasa a high priority area for the protection of this species.

Not only Philippine cockatoos live on the island, but a variety of other species, with an unusual high percentage of globally threatened and near-threatened taxa (IUCN 2008), considering the small size of Rasa. Note worthy among the 104 recorded bird species are Grey imperial pigeon *Ducula pickeringii* and Mantanani scops-owl *Otus mantananensis*.

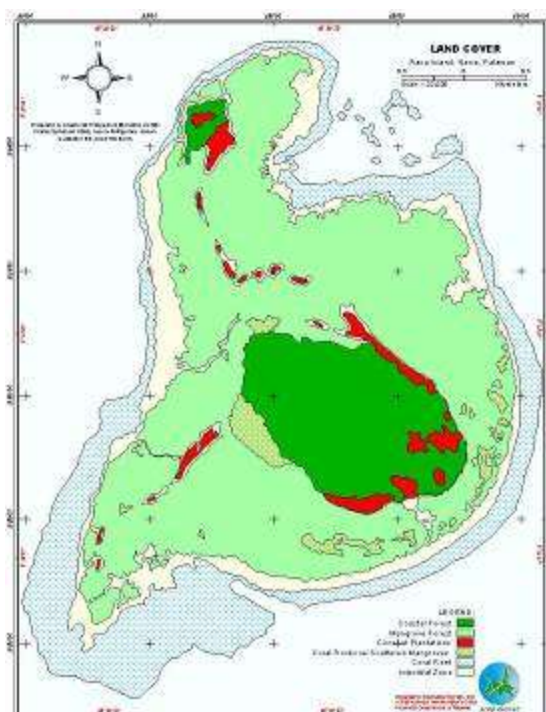


Figure 2. Vegetation and land-use of Rasa Island, Palawan, Philippines.

Dumaran Island, Dumaran, Palawan

Dumaran is situated in north-eastern Palawan between 10°22' and 10°41'N and 119°28' and 119°55'E. Nine Barangays are situated on Palawan mainland, seven on western Dumaran Island. The island is situated in the Sulu Sea and separated by a ca. 7 km wide channel from the mainland.

PCCP currently manages three areas on the island: Omoi and Manambaling Cockatoo Reserves (Fig.3) and the traditional roosting site in Lagan.

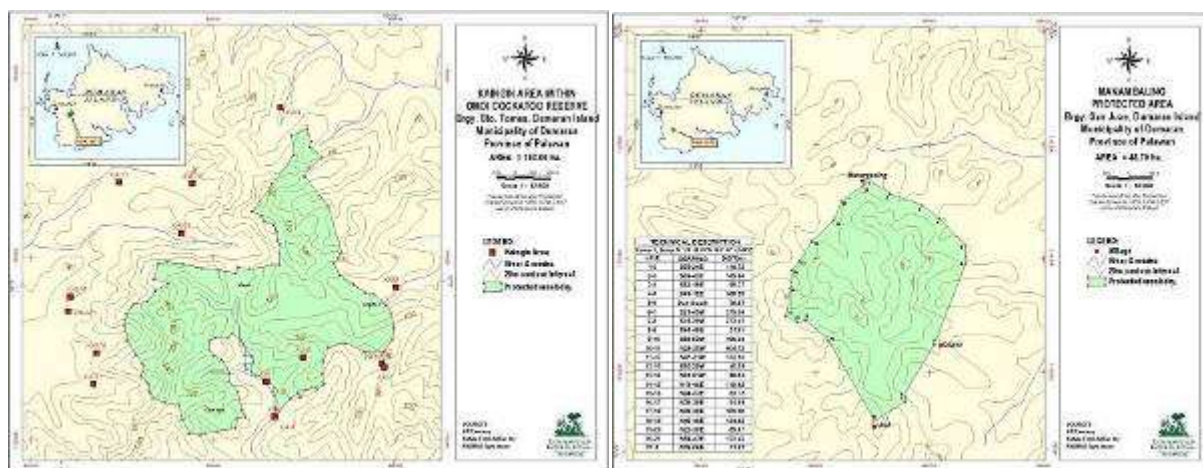


Figure 3. Omoi Cockatoo Reserve (left) and Manambaling Cockatoo Reserve (right) cover the last forest patches on Dumaran Island.

All natural terrestrial ecosystems in Dumaran are tree-dominated. On Dumaran Island only few small and isolated forest patches remain, none of them larger than 103 ha. The most abundant formation is evergreen and semi-evergreen lowland forest with Ipil *Intsia bijuga*, Amugis *Koordersiodendron pinnatum* being emergent tree species of commercial value.

Ornithological surveys conducted by Kataala Foundation so far yielded 108 species from the island. A prominent species of conservation concern is the Philippine cockatoo, which can be found with viable population in the mangroves and forest remnants of Dumaran Island, but apparently not anymore on the mainland. The last remaining forest patches are therefore of global conservation concern. This notion is supported by the recent records of other globally threatened species, particularly the Philippine forest turtle *Siebenrockiella leytenensis*.

Other species of conservation concern are Palawan hornbill *Anthraceroceros marchei*, Blue-headed racquet-tail *Prioniturus platenae* and Palawan pencil-tailed tree-mouse *Chiropodomys calamianensis*. A yet unidentified shrew species has been caught in one of the last forest patches.

Main forms of land use nowadays is upland and slash-and-burn agriculture ('kaingin'), which is still widespread on the island and affects more and more forested areas on steeper slopes on the mainland. Larger parts of the island are covered by grass-and shrub land and dense stands of bamboo as consequence of this practice. Due to lack of water, irrigation systems and level areas, lowland rice cultivation is very restricted. Permanent forms of cultivation are coconut and cashew plantations. Forest and grass fires are common, particularly during the dry season.

Culasian Managed Resource Protected Area (CMRPA), Rizal, Palawan

The Protected Area (PA) is located in the southern portion of Palawan Island in the municipality of Rizal. It is situated in the coastal plain facing the South China Sea, between the coordinates 8°52' to 8°47'N and 117°27' to 117°31'E. The PA comprises 1,954 hectares.

CMRPA ranges from sea level to about 140ma.s.l. south of Culasian proper. The terrain is flat in the narrow coastal area, and rolling to moderately steep in the remaining portions. The two largest forest areas persist north of the highway near Tagbalugo on an isolated moderately steep hill reaching 120ma.s.l. and a highly fragmented rolling forest area south of the highway from ca. 20 to 140ma.s.l. near Darapiton, Malutoc, Balingasag and Tuburon. Two permanent rivers mark the periphery of CMRPA: Culasian River in the north and Arapitan River in the south. Smaller ephemeral creeks and stagnant water bodies can be found inside the area.

The major terrestrial ecosystem in the PA is lowland dipterocarp forest. Unlike most forests in Palawan, canopy heights are very high, often thirty to forty meters, with “Apitong” *Dipterocarpus grandiflorus*, “Manggis” *Koompassia excelsa* being the most conspicuous emergent tree species. Other emergent trees are for example *Dipterocarpus gracilis*, *Dipterocarpus hasselti*, *Intsia bijuga* and *Koordersiodendron pinnatum*.

Level areas are dominated by permanent cultivation. Shifting cultivation is also most common along the roads, but can frequently be found isolated in forested areas, often on steep slopes. Emergent “Manggis” and “Apitong”, isolated in cultivated areas, indicate nest sites of parrots or hill mynas which are ‘owned’ by a poacher, and therefore were not cut during the area was cultivated.

To date, 133 bird species are recorded within the CMRPA. Of outstanding conservation concern (IUCN 2008) are particularly the larger tree cavity nesters, like Palawan hornbill *Anthracoceros marchei*, all three parrot species of Palawan, Philippine cockatoo *Cacatua haematuropygia*, Blue-naped parrot *Tanygnathus lucionensis* and Blue-headed racquet-tail *Prioniturus platenae*.

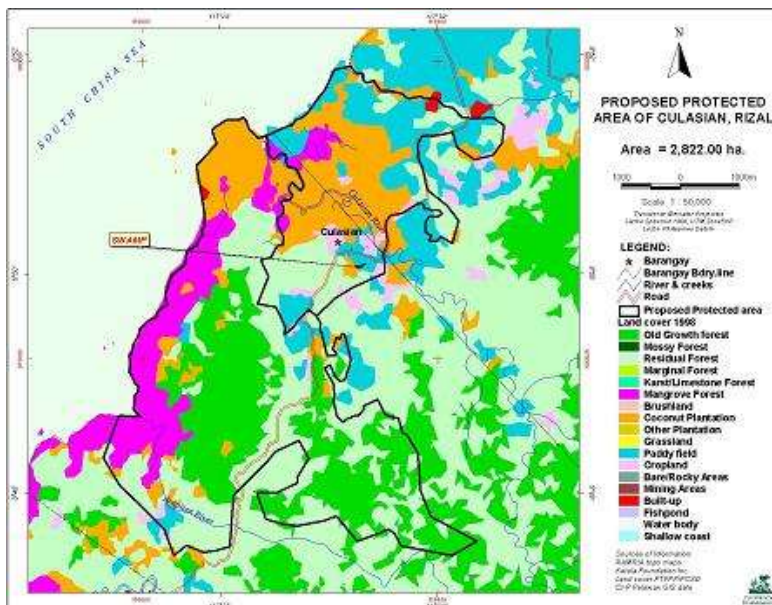


Figure 4. Vegetation, land use and boundaries of Culasian Managed Resource Protected Area, Rizal, Palawan.

Pandanan Island, Balabac

Pandanan Island in Bgy. Pandanan belongs to the northeasternmost municipality of Balabac in Palawan (Fig. 5). Coastal forests are dense and stock on flat limestone originating from elevated coral reefs. Large trees in the coastal forest are mostly deciduous and widely spaced due to water stress during the dry season. The understorey is very dense with abundant vines. Emergent trees comprise the genera *Dipterocarpus*, and *Ficus*. A narrow rim of beach forest with *Erythrina*, *Calophyllum* and *Barringtonia* is present. Coconuts are the major crop grown in the coastal areas and shifting cultivation including lowland rice, corn, and root crops inside forested areas are common land use forms. Extensive mangroves are thriving.

The coconut plantation in So. Manas ((N 08°17' 05.7"; E 117°09' 50.0") is the known roosting site of Philippine cockatoos on Pandanan Island. Sightings from this site range from one to as high as 40 individuals (Widmann *et al.* 2008). Recent counts made by KFI yielded 34 individuals as highest. Variability of roost counts are very much affected by windy and monsoon conditions. Similar observations have been made during our Samar and Polillo surveys (Widmann *et al.* 2002).

So far, 47 bird species have been recorded in and around Bgy. Pandanan, but inventories are still ongoing. Among these

are six globally threatened and six near-threatened species (IUCN 2008). Of outstanding conservation concern are particularly the larger tree cavity nesters, like Palawan hornbill *Anthracoceros marchei*, all three parrot species of Palawan, Philippine cockatoo *Cacatua haematuropygia*, Blue-naped parrot *Tanygnathus lucionensis* and Blue-headed racquet-tail *Prioniturus platenae*, and other conservation relevant species like Grey imperial pigeons *Ducula pickeringii* and Mantanani scops-owl *Otus mantananensis* (Widmann *et al.* 2008).

The seat of government of the barangay is on Malinsuno Island where most of its residents live. Population in the barangay is at 924 individuals (NSO 2007 census), concentrated on three islands of Pandanan, Malinsuno and Tangkahan. Residents are comprised of several ethnic groups: Pal'awan, Molbogs, Tausugs and Visayan-speaking migrants. Major livelihood is fishing. Apparently, smuggling is also a considerable source of income for a part of the

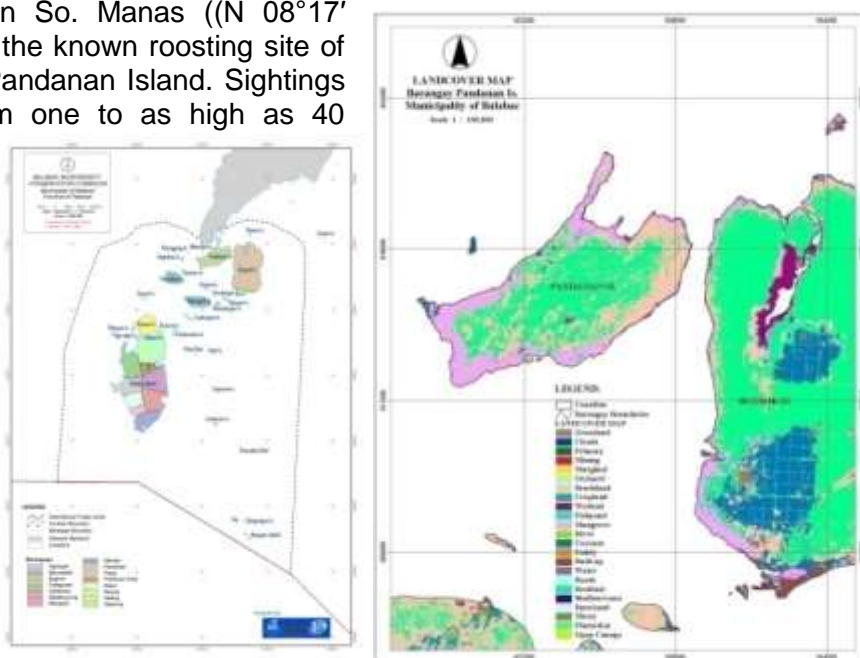


Figure 5. Vegetation map of the island (left) showing vast residual forests (green) surrounded by mangroves (purple), and location of Pandanan Island, Balabac, Palawan (right). Sources: CI-Palawan (right), PCSDS (left)

A large part of Pandanan Island is not easily accessible, because it is privately managed and protected by the Cojuanco's and the Jewelmer Corporation.

The Polillo group of islands in Quezon is possibly the last area containing a population of the critically endangered Philippine cockatoo *Cacatua haematuropygia*, or 'Kalangay' as known locally, in the Luzon faunal region (Gonzalez 1997, Collar *et al.* 1999, Widmann 2001).

Forests, particularly in the northern and central portion of the island, are frequently transformed into slash-and-burn fields. The small diameter classes of cut trees indicate that rotational periods might be shorter than fifteen years. Principal crops planted are corn, cassava, banana and papaya.

Cockatoos persist in very low numbers. Habitat is seriously degraded and lack of nest trees might be a limiting factor. Poaching for the pet trade is still ongoing, due to insufficient law enforcement, particularly in remote areas.

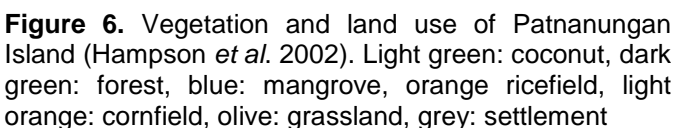


Figure 6. Vegetation and land use of Patnanungan Island (Hampson *et al.* 2002). Light green: coconut, dark green: forest, blue: mangrove, orange: ricefield, light orange: cornfield, olive: grassland, grey: settlement

The Philippine Cockatoo Conservation Program (PCCP) employs an ecosystemic and community-based approach to biodiversity conservation using the Philippine cockatoo as its flagship species. The main components of the program are nest protection or wardening schemes; scientific researches on feeding, biology and ecology of the Philippine cockatoo and other threatened species; identification, protection and management of key conservation sites; conservation education; habitat restoration; and capacity building. Researches on the Philippine cockatoo include distributional surveys, rescue of individual birds, translocation assessments, and conservation breeding for later re-introduction.

Information on the biology and ecology of the cockatoo is gathered through direct observation. On Rasa, movements of the cockatoos can be best observed from a boat, from beaches or coral outcrops. Very dense vegetation on the island considerably hampers visibility on transect walks or point counts. On Dumaran, Rizal and Patnanungan, movements are observed through wardens monitoring and patrols at protected areas and roost sites.

Monitoring of the population trend on Rasa and Dumaran is done through counting individuals at a traditional roost site. A traditional roost site is situated in a mangrove area on Rasa and can be observed from a boat while in Dumaran a privately-owned coconut plantation serves as the roost site bordering close to a mangrove area. Counts are conducted monthly either before sunset on Rasa and daily on Dumaran. Exceptionally, counts are also conducted during dawn before birds leave the roost site. Whenever possible, counts on Rasa are conducted under similar weather and light conditions. No roosting sites are known from Culasian and Patnanungan.

The core component in all project sites is the wardening scheme, employing former poachers as wildlife wardens. Wardens inspect and verify existing and potential nest trees starting end of September. During the breeding season, the nest trees are under permanent surveillance. Trees are climbed and nest holes controlled every ten days during that time. For safety reasons, dead or damaged trees are not climbed. Nest trees are characterized through species identification, tree height, diameter at breast height (DBH), height of nest hole, exposition of nest hole, diameter of hole, and diameter at base and depth of cavity. The geographic location of each nest tree is taken with the help of a GPS and marked in a map.

Presence or absence and condition of adult birds, eggs, nestlings or nest predators are noted. Nestlings are weighed with Pesola spring balances/and or electronic balance and banded with aluminum rings bearing the inscription of the Department of Environment and Natural Resources (DENR), the number and year (e.g. DENR 01-09).

Volunteers are detailed in monitoring stations at the mainland coasts of Narra within and outside the breeding season. These volunteers record all sightings of cockatoos and other significant wildlife in the area of assignment.

Surveys to find remnant cockatoo populations are based on historical sources or recent information. To initially narrow down the searches, non-formal interviews with key informants (poachers, other forest users, barangay officials, school teachers) are conducted. Surveys aim to identify remnant cockatoo populations or areas which are suitable for translocation.

Herbarium collections are made of key plants in cockatoo habitats, particularly food-providing plants, and nest and roost trees. The physical structures of cockatoo breeding habitats are characterized through forest profiles. Phenological information on fruiting and flowering of food-providing trees are systematically collected on Rasa.

Restoration of mangrove is conducted on Rasa through transplanting of nursery-grown trees. Experimental restoration of lowland forest habitat is done in Dumaran. Particularly nest- and food-providing plants for cockatoos are systematically tested for their suitability for reforestation. MS Access and excel programs are used for analysis.

Composition of remaining bird communities in project and survey sites is assessed using MacKinnon-Lists and, occasionally, mist-netting. Composition of mammal, reptile and amphibian communities in project sites is assessed through direct observations, mist- and harp-netting, live-trapping (Sherman type and locally-made cage type) and pitfall trapping.

To identify potential cooperators for the projects, livelihood needs, and capacities, stakeholder and SWOT analyses are employed. Participatory planning is done through goal-oriented project planning methodology. Alternative livelihood is provided for key-stakeholders of the cockatoo and the PAs, based on the needs assessments.

Conservation education activities employ the PRIDE approach which uses marketing methodologies to galvanize community support for conservation. The approach conducts pre and post project surveys to assess changes in levels of knowledge, awareness and behavior among target audience by using control groups. Survey Pro is used for analysis on changes over time. Proven marketing vehicles like billboards, posters, fact sheets, puppet shows, school and community visits, festivals and media participation are used to deliver relevant and compelling conservation messages.

Relevant trainings and seminars are conducted to help capacitate local partners in conservation. Cross visits to Rasa and other project sites are encouraged to facilitate exchange of experiences, lessons learned and good practices to boost morale of local partners and reinforce knowledge.

Please refer to each output for particular methodologies used in achieving results.

RESULTS AND PROGRESS

Output 1: Translocation planning for Philippine cockatoos

The National Workshop on the Development of the Re-introduction Protocol for the Philippine Cockatoo is set on March 2010. This will be jointly convened by PAWB-DENR and KFI.

Please refer to Objective 7 for more information on improvements at the Katala Institute for Ecology and Biodiversity Conservation (KIEBC).

Output 2: Conservation of cockatoo population on Pandanan Island, Balabac initiated

After this year's attempt to monitor the breeding season, activities had been restricted to coordination with concerned partners. Communications with municipal and barangay officials were open. In November, SSchoppe and MManalo met with Vice Mayor to further discuss about the project endorsement. KFI was granted accreditation by the Municipal Council to work in the area. In December, we have secured the endorsement from the Provincial Government. The application is now in the agenda of the Palawan Council for Sustainable Development (PCSD). We hope that the SEP clearance will be given in time for the 2010 breeding season activities.

The approval of the proposal submitted to the USFWS Wildlife Without Borders – Critically Endangered Animals Conservation Fund is timely for the 2010 project implementation. This proposal was endorsed by Dr. David Waugh on behalf of PCCP's principal donor and funding partners.

Roost site monitoring

We coordinated with Ex Bgy. Captain Jun Gabinete, owner of the coconut plantation in Manas, to do the roost counts from October to December 2009. He did weekly

counts in the area with the highest count in October with 44 individuals. This indicates that this might be the second-most important cockatoo project site.

In September, birds were observed to move at the center of the coconut plantation in Manas to avoid strong winds brought by a typhoon.

Nest protection scheme and linkaging

Through the help of Mr. Jun Gabinete, we were able to coordinate with identified poachers who committed to cooperate fully with the conservation work. Two meetings were conducted by Mr. Gabinete within the reporting period. This was to prepare them for the work ahead and to ensure if they are willing to render voluntary service as wildlife wardens.

These four identified wardens belonging to Pal'awan tribal community were recruited to join the Refresher Course for PCCP wildlife wardens on 16-18 December 2009 at Puerto Princesa City. The training introduced the wardens to their functions and responsibilities while given the opportunity to interact with other PCCP wardens. Most significant outcomes of the said training for these new recruits include:

- Learning from other wildlife wardens from other project sites. The exchange of experiences, opinions and deliberations amongst wardens was very rewarding and as Pudi (a renowned poacher from the area) puts it *"It was only then I fully understand the scope of the work and the responsibility I am into."*
- Exposure to the different methods and techniques used in nest monitoring to include the proper use of equipment e.g. DBH tape, hypsometer, binoculars, etc.
- Knowledge about pertinent laws.

The four were accompanied by Hon. Violete Gabinete the Bgy. Captain of Pandanan, Ex Bgy. Captain Nestor Gabinete and the Chair of the Bgy. Committee on Environment, Kgd. Edjal Karaan.



Figure 7. Poachers - now new wildlife warden recruits - from Pandanan participated fully during the Refresher Course offered by PCCP for its wardens in December. ©KFI

Constraints and measures taken

- We pursue our efforts to meet with officials of the Jewelmor Corporation. KFI President, JM Zubiri sent them an official letter but no reply has yet been received.
- In as much as we want to fully implement the project in Pandanan, we are restricted by the pending approval of the SEP clearance. We are hoping in January, PCDS will grant the approval in time for the 2010 breeding season.

Output 3: Conservation of cockatoo population on Rasa Island Wildlife Sanctuary (RIWS), Narra continued

Wardening scheme

On 4th September project management met with wardens for the assessment of this year's breeding season. Apparently, this year's breeding attempts were late. The rain in June might have contributed to

mite infestation as observed by wardens and discussed in previous report.

Nest monitoring revealed pairs had already started preparing nests as indicated by cut twigs, cavities cleaned and some pairs are observed staying in nests already in December.

We are considering to prohibit visiting guests, birders in particular, to get into the campsite as early as January. Likewise, we decided to cut short the banding procedure by not including wing span and total length in the measurements of the hatchlings in the hope of lessening stress on the birds.

We also discussed on possible scenarios if and when we will have the El Niño effects in 2010. Continuous monitoring of food sources on Rasa was done. The rainfall in September and October was a welcome event.

New cockatoo nest trees, potential nest trees either of cockatoo or other target birds were flashed with iron sheets. Artificial nest trees were monitored.

Wardens were also occupied hauling driftwood from Rasa to KIEBC for the new aviary. This has permit from CENRO. Likewise, they hauled Bangkal trees that were planted at KIEBC near the big aviary. Wardens repaired the roof of the aviary of P08 (cockatoo confiscated from Pandanan in 2008) after the typhoon in September. They assisted in the turtle survey in Plaridel, Aborlan in October. They also took turns in bird care, nursery maintenance, planting of trees around the new aviary, etc.

Capacity building of the Protected Area Management Board (PAMB) of the Rasa Island Wildlife Sanctuary (RIWS)

The regular PAMB meeting for this quarter was conducted on 4th of November 2009 with 11 member-offices present. Ms.

Amabel Liao of PSU-Narra presided the meeting in absence of PAMB Co-Chair Mayor Demaala. Highlights were:

- 2010 Workplan for RIWS approved
- Committee Reports

Five hundred thousand pesos for Priority Development Assistance for Narra was secured by KFI through Sen. Zubiri. This will be used for development projects in the municipality.

Conservation Education

In September, SHDiaz gave presentation about the PCCP on Rasa Island before ca. 80 students from all national high schools in Narra attending the Girl Scouts of the Philippines Camping in Panacan National High School.

Tab. 4 lists the IEC activities covered within the period.

Palay Festival

The Katala Fun Day was celebrated during the Palay Festival in Narra in October 2009. Games included bird quest, name game, and puzzles. The puppet show performed by students from the Palawan State University – Narra campus was a hit along with Katala, the mascot, who had several appearances. There were painting contest, bird origami, face painting and coloring books to keep ca. 240 kids and adults alike busy with. Interactive lectures about the plight of the Philippine cockatoo and the Philippine Forest Turtle. Adding to the festivities was our improvised booth where we showed environmental films and relevant documentaries.



Figure 8. Photos during the Katala Fun Day in celebration of Narra's Palay Festival in October 2009. ©KFI

Systematic collection of data on breeding and feeding biology and population dynamics of Philippine cockatoo continued

At the traditional roost site, the highest count within the period was 225 individuals in September (Fig. 9). From June to December, counts were over 200 individuals. There is difficulty in counting birds at roost site from November onwards because it was getting dark already at 5:30pm. Birds at the roosting site were observed perching on several Pagatpat trees not the usual roost tree while several others were hiding in mangrove canopies. Some birds were observed flying directly to Dapdap area while others headed towards the coastal forests during morning counts.

On mainland Narra, the highest count was observed in October with 63 individuals at Borbon area, the shortest route from Rasa (Fig. 10). From Borbon, birds dispersed throughout the coastal areas in Panacan and Antipuluan. As expected, birds were

observed foraging on Malunggay *Moringa oleifera*. Birds were observed regularly following a route where these plants are located reaching the highway of Bgy. Antipuluan and then back to coastal area of Dr. Tan where birds were seen flying towards the island. In another monitoring station, birds follow the route in the interiors of Bgy. Panacan Antipuluan where fruits of Malunggay are also abundant. Apparently, sites are mainly characterized by presence of *Moringa oleifera*.

We continue monitoring rainfall in all sites. From November on Rasa, very little rain was recorded. In an official data from the Philippine Atmospheric, Geophysical and Astrological Services Administration (PAGASA) based in WPU, Aborlan (the nearest station to Rasa Island), rainfall in November and December was only 78.3 and 12.8mm respectively. This is so far the lowest for these months since year 2000. We are expecting very dry months in the coming breeding season.

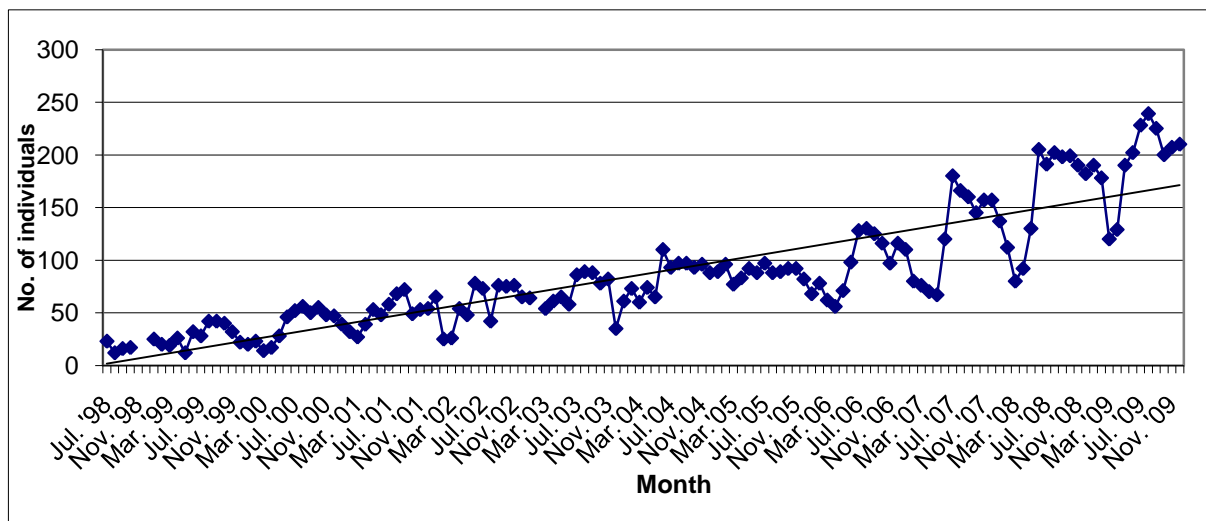


Figure 9. Monthly roost counts of Philippine cockatoos at the traditional roost site, Rasa Island, Palawan.

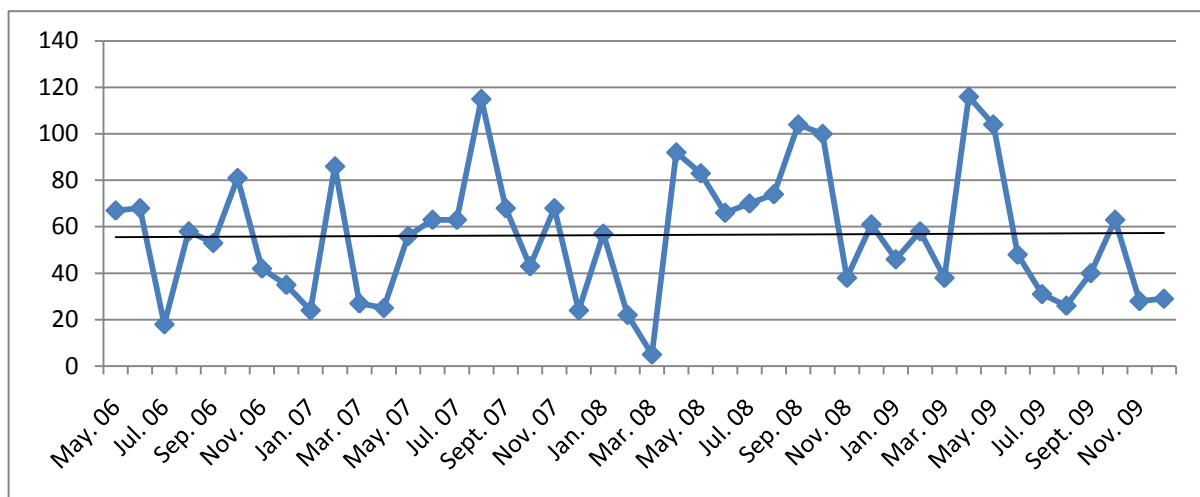


Figure 10. Maximum numbers of Philippine cockatoos counted on the mainland opposite Rasa Island on a single day.

Constraints and measures taken

- In 2009, the committed 200,000 pesos from the municipality did not materialize. We were released only 120,000 pesos. However, the 2010 budget which was approved in September assures a 200,000 peso appropriation for the conservation work in Rasa.
- Monitoring of Malunggay planted in previous years revealed that most of it did not survive. The ones planted on Rasa as well did not thrive probably due to poor soil quality.

Output 4. Conservation of cockatoo population on Dumaran Island, Dumaran continued

Wardening scheme

Wardens confiscated two Blue-naped parrots from Mr. Emmanuel Agda in September. These were intentionally trapped in his kaingin area. Accordingly, trap was set up since birds were feasting on their sorghum. Birds were stable at 220g (male) and 210g (female) after a day of observation; hence, they were immediately released in Omoi Cockatoo Reserve.

Slabs of cut hardwood trees Ipil *Intsia bijuga* were observed in the last two months of the year in Sto. Tomas. Allegedly, this was intended for school building construction. The barangay captain reportedly pursued his plan saying that he had coordinated his efforts with the Municipal Environment and Natural Resources Officer (MENRO). On the other hand, wardens observed wild pig killed by locally made pig bomb in farms. Farmers were given warning.

Along with patrol and monitoring, wardens search for potential trees for artificial nest box installation.

Verifications of cockatoo sightings in mangrove and kaingin areas in Lagan, Piawi, Tomoy, Telban, Langkan Bay were conducted also to monitor other possible roost sites.

Campsite was moved to newly acquired site buffering the Cockatoo Omoi Reserve. Driftwood and fallen branches with cavities potential for artificial nest box fabrication were collected. These will be used for hornbills and cockatoos alike.

Wardens replaced tree markers of those under the phenology study.

Other activities that kept wardens busy included nursery care and management and maintenance of the garden at campsite.

Capacity building

The Local Protected Area Management Committee (LPAMC) convened on 9th November with 13 member offices present and was presided by Mayor Aurelio. Highlights were the approval of the PCCP workplan for 2010, and confirmation of the municipal financial assistance to the project from a significant 150,000 pesos. Critical issues such as the proposal of Green Square Properties Corporation (GSPC) to plant *Jatropha* over 11,101ha on the island were initially discussed. PCSDS representative Mr. Larios explained to the committee that said proposal was endorsed by provincial government and his presence in the area was to validate and evaluate pursuant to its application for SEP Clearance. The committee agreed that existing PAs and buffers must be secured from this project. Moreover, actual survey of the area must be done and social acceptability must also be assessed. Mr Aurelio, private secretary of the Mayor, commented that this is a big venture of GSPC that will benefit the communities in lowland areas where productivity is low. This topic was further discussed in an ECAN Meeting three days after.

Mr. Larios also reported that out of 13 registered chainsaws in Dumaran only one was confirmed renewed; hence, all other chainsaws operating in the area are illegal. Other topics discussed were the persistent kaingin activities in the area and the registration of air guns particularly brought up by Tirso Sy, Kgd of San Juan.

Like in Narra, five hundred thousand pesos for Priority Development Assistance for Dumaran was secured by

KFI through Sen. Zubiri. This will be used for development projects in the municipality.

Conservation education

Sixteen active and potential members of the Katala Conservation Club (KCC) participated in the PCCP-sponsored Leadership and Team Building Workshop on October 27-29, 2009. The workshop was aimed to improve leadership and team building skills of young Dumareños to become effective leaders and models in the community through active involvement in conservation work. Topics exposed them to uncover their strengths and weaknesses, realize their creativity and build confidence. Methods were all interactive and participative. This workshop was in collaboration with the Palawan Conservation Corps.

For activities at the Katala Environmental Education Center (KEEC) and education campaigns, please refer to Tab. 4.



Figure 11. Young students from Dumarán actively participating during the Leadership Training conducted at the KEEC. ©KFI

Create buffer zones around existing cockatoo reserves, preferably including creation of alternative livelihood options

During the recent visit to the Reforestation and Restoration Project Site, GPS readings were again taken for mapping purposes. With the pending project on *Jatropha* covering almost all of the lower elevations of Dumarán Island, the already disturbed lowland ecosystem with very fragmented forest area continuously is threatened. We learned that this initiative gained support from authorities and we hope a good feasibility study comes with it. The Mayor

though committed that existing protected areas will be respected once implementation starts.

The carbon or biomass quantification field work was done in December in cooperation with the College of Forestry and Environmental Sciences of the Western Philippines University. We are hoping results of said study will be out by 1st quarter of 2010.

The nursery holds a total of 1,193 seedlings of at least six tree species. We planted 96 Narra trees at the Reforestation Site in addition to the ones planted in June.

Systematic collection of data on breeding and feeding biology and population dynamics of Philippine cockatoo continued

Six artificial nest boxes (ANBs) were fabricated using locals materials (old cavities from fallen branches or trees); four of which were for the Philippine cockatoo and two for the Palawan hornbill. One ANB each for the Philippine cockatoo and Palawan hornbill was installed inside the buffer zone of Omoi Cockatoo Reserve. While two other ANBs for Katala were installed at the roosting site in Lagan and nearby mangrove area for easy monitoring. Table 1 shows the characteristics of the trees installed with ANBs. The rest were installed in Omoi and Manambaling Cockatoo Reserves. So far, no ANBs have shown any sign of occupation. Measurements of these ANBs are presented in Table 2.

Table 1. Characteristics of trees installed with Artificial Nest Boxes (ANBs) in Dumaran.

ANB No/Location	Tree Species where ANB installed	Height of Tree [m]	DBH (at Height) [m]	Bole Height [m]	ANB height [m]	Nest Hole Orientation
ANB-D005 Hornbill Refo area – Omoi	Amugis <i>Koordersiodendron pinnatum</i>	31.3	0.82 at 3.6m above buttress	16.5	17.8	N25°E
ANB-D003 Phil cockatoo Refo area –Omoi	Bayog	23.6	0.98 at 1.3	3.5	14.3	N10°E
ANB-D001 Phil. Cockatoo Lagan- coconut plantation	Kasay <i>Albizia</i> sp.	18.6	Coppice 1-0.31 2-0.36	5.3 6.0	9.8	N15°E Facing roosting site
ANB-D001 Phil cockatoo Lagan mangroves	Pagatpat <i>Sonneratia alba</i>	13.6	0.36	4.4	9.6	S35°W facing roosting site
ANB-D004 Phil cockatoo	Ipil <i>Intsia bijuga</i>	14.2	12.1	4.6	11.4	S18°W
ANB-D006 Palawan hornbill	Somalagen	22	6.6	7.2	8.3	N25°E

Sightings of cockatoos were verified mostly in kaingin areas where harvest of crops (rice, sorghum and corn) is on-going.

Daily counts at the traditional roost site in Lagan recorded 23 individuals in September and October (Fig.12). As can be seen, there is a slight decline in the maximum counts of the last two years.

We could not tell whether some birds have died or are not breeding. Search for other possible roost sites continued but did not yield positive records as yet.

Constraints and measures taken

- The pending implementation of the *Jatropha* plantation is discouraging for us considering the very little forest patches left on Dumaran Island. The project is under the guise of agro-forestry plantation which perhaps is misleading the community. We

continue to seek information regarding this project which is allegedly supported by the municipality and PCSDS. Meanwhile, we hope the latter considers the existence of two Cockatoo Reserves and the buffer areas of these two PAs while we work on mapping the newly acquired buffer area in Omoi.

- Fuel costs have gone up within the period and hiring of motorcycle.
- The increase in municipal funding is an encouraging step however we must wait till 2010 if this would indeed be released.

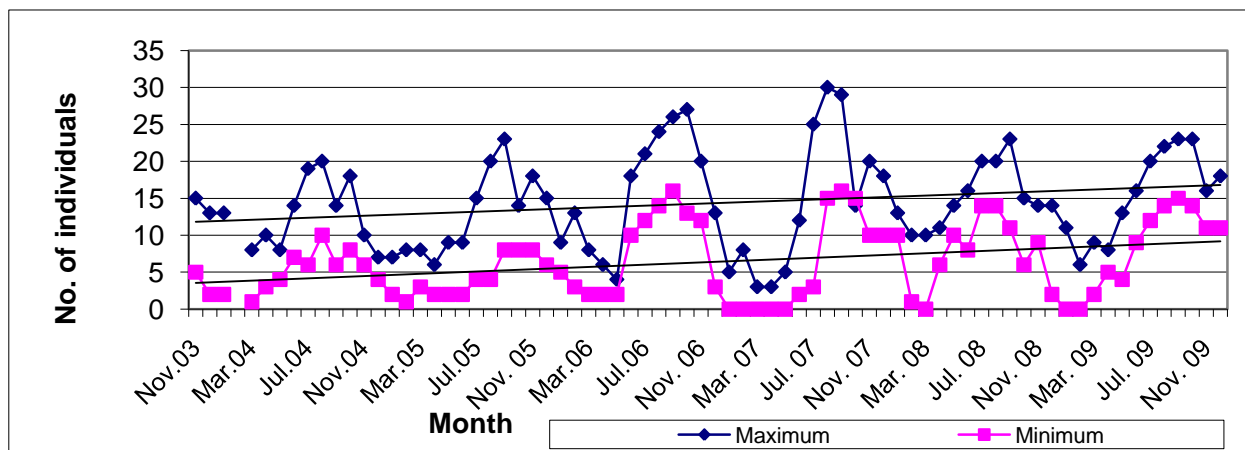


Figure 12. Monthly maximum and minimum numbers of Philippine cockatoos roosting at the traditional roost site in So. Lagan, Bgy. San Juan, Dumaran, Palawan.

Output 5. Conservation of cockatoo population in Culasian Managed Resource Protected Area (CMRPA), Rizal continued

Wardening scheme

Incessant kaingin activities were reported within the period. A tabular presentation of this is shown in Table 3. Cases were closely monitored by PCCP team and in most of these, no concrete actions from authorities were achieved; instead wardens' threats on lives continued. When confiscations were successful like in the case of Ipil slabs in October, said evidences was nowhere to be found after custody was left with the Bgy. Captain. Much as we have engaged all authorities in the area, apparently, counteractions are not sufficient.

Wardens and other concerned individuals took the opportunity to report to authorities during a meeting in Culasian conducted by PCSDS and KSK (Kilusan Sagip Kalikasan) on pertinent laws. They were promised actions.

Patrol and monitoring by wardens within the reporting period was not restricted to the CMRPA. KFI secured additional funding from Conservation International – Palawan Program through a sub-grant

of One hundred fifty three thousand pesos from November 2009 to June 2010. This extends the monitoring scheme of PCCP wardens to the headwaters of Culasian to complement the protection efforts in the eastern flank of Mt. Mantalingahan Protected Landscape (MMPL) in So. Marinsyawon. This complementation arrangement will result to east-to-west enforcement and protection of the southern boundaries of MMPL.

In addition, the Municipality of Rizal through Mayor Degillo released Seventy-five thousand pesos to financially assist the wardening scheme implemented by the KFI in CMRPA.

Table 2. Characteristics of Artificial Nest Boxes (ANBs) for the Philippine cockatoo and Palawan hornbill in Dumaran, Palawan

ANB Number- Dumaran	SPECIES	Drifted Wood Used		ANB measurements (cm)						Distance of NH Opening		Remarks
		Main	Pieces covered	Length	Outside		ANB Hole opening	Inside		Top	Base	
					Top	Base		Top	Base			
ANB- D001	Phil. cockatoo	Maniksik	Dulo	140	25	24	24 x 9	15	17	40	76	With window fixed by hinges & lock
ANB- D002	Phil. cockatoo	Maniksik	Dulo	145	29	17	20 x 28	16	10	10	110	No window-NH opening on top and depth of chamber 40
ANB- D003	Phil. cockatoo	Barimbing	Dulo	141	21	30	9 x 13	14	23	5	128	With window fixed by hinges & lock chamber on expanded base NH at 70cm
ANB- D004	Phil. cockatoo	Amoraon (<i>Vitex</i> sp.)	Dulo	150	23	32	10 x 10	19	22	29	116	With window fixed by hinges & lock chamber on base expanded
ANB- D005	Palawan hornbill	Maniksik	Dulo	153	30	30	16 x 11	23	27	110	25	No window, opening on bottom with opening on top
ANB- D006	Palawan hornbill	Maniksik	Dulo	145	23	30	7 x 18	8	26	120	15	No window, nest chamber on base expanded, narrow chamber heading top- with opening



Figure 13. Illegal activities documented by PCCP wildlife wardens on duty in Culasian, Rizal.
©IRegodos

Table 3. Summary of KFI-reported illegal activities in and around CMRPA, Rizal, Palawan, September - December 2009

Date	Location	Reported Activities	Actions taken	Remarks
09/14/09	So. Kurisom-kurisom, Balukanad Binangkayan, Darapiton	Kaingin activity ca. 50x50m allegedly by Mr. Angluna Illegal cutting of Ipil tree with height ca. 35 meters, drum sized width and cut into various sizes. Also observed Magtos tree made into boat keel.	Reported to Culasian Bgy. Council, DENR and PCSDS. No action taken. Both reported to the Bgy. Captain of Culasian.	The inspection team (PCSDS and DENR) did not pursue its ocular inspection due to time constraint. They managed to investigate only the case of Mr. Armada.
09/17/09	So. Kurisom-kurisom, Balukanad	Monitored “ <i>Bulunoy Aliaga</i> ” clearing his claimed area.	Was warned by wardens but perpetrator insisted he has all the right to do cause he bought the lot.	Monitored again in December 7 and it was observed that further cutting were made including Manggis allegedly for charcoal
09/19/09	So. Bakaw-bakaw, Tagbalugo	Kaingin activity made by Mr. Roel Armada Verification of said area was done in Sept. 29 where cut logs and vines of Tabo wild fruits and ca. 50x50m cleared area was observed	KFI reported to Bgy. Council, CENRO on Oct. 5, letter sent to PENRO on Oct. 15, CENRO and PCSDS personnel investigated in the area on Oct. 12, KFI sent another inquiry on Nov.10	Continued clearings as observed on Oct. 11 despite warning given by authorities Wardens continue to be threatened.
10/14/09	Darapiton	Recovered 29 pcs slabs of different sizes of illegally cut Ipil <i>Intsia bijuga</i>	Bgy. Captain of Culasian instructed the Tanods to haul the said tablons and temporarily deposit in the	<i>Tablons</i> were reportedly stolen the following day and no witnesses can be asked. DENR asked for a

Date	Location	Reported Activities	Actions taken	Remarks
			barangay under their custody. Reported to PNP and PCSDS	written report from the barangay on the loss.
11/08/09	Near Kurisam	Trees cut were Manggis, Rimbangon and Mararing for charcoal making allegedly by Manoling Tulinggo, Fuldo and Langguna	Wardens reminded that it is illegal. Reported to authorities.	
11/19/09	Near Kurisam	Kaingin activity by allegedly son of Roming Cuba. Alleged violators assert that they can do anything on their property.	Wardens reminded that it is illegal. Reported to authorities.	
11/21/09	Magdodorang, Balukanad	Continued kaingin by certain Mr. Virayan Milendez. Trees cut were live Apitong, Aripa and others.	Reported to concerned authorities.	Violator ignores warning from authorities.
12/03/09	So. Agis-agis, Tagbalugo	Massive cutting of mangroves for tan bark		
12/06/09	Kalawitan, Balukanad	Cutting of trees within claimed area, however trees cut include big Manggis and Ipil	Warning was given by wardens and reported to the barangay	It was monitored on Dec. 14 and wardens observed no further clearing done

Capacity building and conservation education

The LPAMC Meeting was conducted on the 8th September with 8 member offices present. Hon. Abelardo Parado, SB member, presided the meeting. Highlights of this meeting were the request for financial assistance for the wardening scheme from the municipality and the deputation of wildlife wardens. The Mayor through its representative has committed its support for the required amount. KFI has requested Seventy-five thousand pesos for the last four months of 2009 and another Two hundred thousand pesos for 2010 to help cover incentives for the wardening scheme. PCSDS representative Angel Manalon also reported that renewal of chainsaw registration is on-going and so far none yet has complied in Rizal. This would only mean that all chainsaw operations

are illegal in the area. IRegodos reported meanwhile that wardens have observed cutting of hardwood trees (Apitong, Manggis and Badak) within the area covered by the PSU-led Rubber and Abaca plantation under their Socialized Integrated Farming Management Agreement (SIFMA). This report was confirmed by wardens on duty and ocular inspection by PCCP team was done but very restricted access was given by project implementers thus there was not much seen during the visit. LPAMC decided to request presentation from the project lead on said complaints in the next meeting. The said area may not be part of the CMRPA but of the Mt. Mantalingahan Protected Landscape.

The last regular quarterly meeting of the LPAMC was held on 26th November 2009. Presiding was Mr. Dan Espera, the Mayor's representative, with 11 member offices present. Highlights on the reports from members were:

- PASu Pador or CENRO-Quezon reported that their office had several apprehensions in the period. She said kaingin activities in the area prospered due to misunderstanding of the news heard over the radio that kaingin is allowed by the President of the Philippines;
- PCSDS confirmed the illegal fishpond development in Bgy. Culasian and will file case consequently;
- KFI reported on the illegal activities monitored by wardens within the period (refer to succeeding topics);
- Continuous absence of LPAMC members during its meeting e.g. Culasian Bgy. Capt Ong. The committee decided to invite the whole council of Culasian for next meeting to tackle this concern;
- Presentation of the PSU-led Rubber and Abaca plantation in Rizal. An ocular inspection by members of the LPAMC is scheduled to assess reported damage on existing trees; and
- Dates for the upcoming festival in Rizal.

Through IRegodos, basic literacy lessons are pursued focusing on writing skills among wardens who did not have any opportunity to be in school. IDLWidmann observed improvements in writing ability of most wardens.

Like in the other two project sites, five hundred thousand pesos for Priority Development Assistance for Dumarán was secured by KFI through Sen. Zubiri.

A visit at Culasian Elementary School was conducted in September to discuss about forest protection. Forty pupils attended from this new school site.

On a market survey in Tagur and Samak in Culasian in November, no wildlife were

seen traded. We took that opportunity to discuss among vendors about laws and restrictions within the protected areas.

Initial seeds were distributed for the gardening project of the wardens. The small grocery as well was revived by the Balukanad group.

Systematic collection of data on breeding and feeding biology and population dynamics of Philippine cockatoo continued

A cockatoo observation within CMRPA is still scarce. Four were observed perching on Patag tree at 3:00pm on 2nd September in Tagbalugo area. Fourteen days after, four again were sighted flying from Darapiton area and perched on a Patag tree at 10:00am. In December, three individuals were sighted perching on an Apitong tree near a stream in Tagbalugo.

During the breeding assessment meeting in September, we agreed monitoring nest trees in Ransang where we once had successful hatchlings should be done more intensively.



Figure 14. Meeting with Rizal wardens in September to discuss future work. ©IRegodos

Constraints and measures taken

- Kaingin activities within and surrounding PA is on-going despite warnings from concerned authorities.

We hope that with the integration of wardens into the MMPL scheme, we can mobilize more people and fully engage them in law enforcement.

- The financial assistance for the wardening scheme which was secured from CI and the Municipality of Rizal certainly will help sustain the wardens' activities. We are hoping that in 2010, the Municipality releases its committed amount for the scheme.

Output 6. Polillo Islands Parrot Conservation Project promoted

Nest protection scheme for cockatoos and other parrot species

Two Philippine cockatoos, Kalangay as locally known, were sighted in Patnanungan between the barangays of Kilogan and Patnanungan Norte. The Kalangays were seen passing over the coconut groves and ricefields. They were also observed roosting in the nest trees though no indications yet of breeding preparations.

Two artificial nest boxes were installed in Sitio Biyo, Brgy. Kilogan. Local material from a fallen Red lauan *Shorea negrosensis* was used. ANB 1 was installed on a Balutang guinto, while ANB 2 was on a Milipili *Canarium luzonicum*. Fruits of both trees are eaten by Kalangays. Two identified nest trees in Patnanungan might not be positive for breeding attempts because one is flooded because of the orientation of its cavity while the other is mainly disturbed by human activity (charcoal making).

In Burdeos, six Kalangays were spotted by AGomez in Duyan-duyan Forest last 11 November 11 at 4:32 PM. Of the two active cockatoo nest trees in Burdeos, only one showed signs of breeding attempt. Nest 4 which is of *Tanygnathus lucionensis hybridus* indicated signs of nesting. Several other bird species were

heard during this recent visit to nest trees at Brgy. Anibawan. This was along with Forester Noelson Caras from DENR Region 4-A. His participation was crucial to validate potentials of remaining Philippine cockatoos and existing forests in Bgy. Anibawan, Burdeos. He was also exposed to the realities in the area where incessant kaingin is practiced and unmitigated. We observed that effects of storms Ondoy and Santi on the forest was very minimal compared to that felt in the cities. However, there were worst effects on the banana plantations and ricefields being flooded and harvest reportedly dwindled to 25%.



Figure 15. The first artificial nest box for the Philippine cockatoo was installed in Patnanungan in November. ©LDans

Table 4. Conservation education campaigns, September - December 2009, Philippine Cockatoo Conservation Program

DATE/TIME	ACTIVITIES CONDUCTED	LOCATION	RESULTS/REMARKS
07-Sep-09	FGD with out of school youth	Municipal stage, Bgy. Poblacion, Dumarán	Gathered nine youngsters and discussed about endangered species and its habitat. Distributed posters, brochures and pamphlets
10-Sep-09	FGD to 4p's beneficiaries	KEEC Field house, Bgy. Poblacion, Dumarán	Discuss on forest protection vs kaingin practices. Distributed pamphlets, brochures.
17-Sep-09	FGD to Grade 5 students	KEEC Field house, Bgy. Poblacion, Dumarán	Discussed on Biodiversity Conservation. Distributed pamphlets to 15 students
19-Sep-09	Environmental Lecture about PCCP	PNHS, Panacan, Narra	Ca. 80 girl scouts from PNHS, SFJC, Aramaywan national HS & NNHS attended the lecture and joined the coastal clean-up at pier to Inojas area.
22-Sep-09	FGD with Day Care parents	Bgy. Hall, Bgy. Poblacion, Dumarán	Gathered 22 parents and talked about environmental laws and protected areas. Distributed pamphlet and brochures.
29-Sep-09	IEC with residents	So.Batas, Bgy. San Juan	Gathered 16 residents. Conduct lecture re: the Phil. Cockatoos and Rasa Island/PA vs. kaingin practices. Distributed posters, brochures and booklets
29-Sep-09	IEC with Students	Culasian Elem. School, Bgy. Culasian, Rizal	40 students from Grades 1 to 6 participated in lecture about sharing a place to live concept and about PCCP activities. Distributed IEC materials.
07-12 Oct-09	FGD and lecture during 5th Philippine Bird Festival	Training Center, Balanga City, Bataan	Interactive lecture on Share a place to live. Around 130 students from grade school and college students attended. Distributed postcards, brochures, posters and T-shirts. Booth display on seed dispersal by birds, interaction with booth visitors and general public.
13-14-Oct-09	Informal lecture with elementary pupils	KEEC Field house, Bgy. Poblacion, Dumarán	Discussed on environmental issues like landslide and kaingin, laws governing the environment and the penalties of violations under the law, Share a place concept with questions and answers. Distributed information materials.
22-24-Oct-09	IEC for general public during Palay Festival	Narra Gymnasium, Narra	Organized creative display about PCCP activities and interacted with general public
26-Oct-09	Informal lecture	KEEC Field house, Bgy. Poblacion, Dumarán	Talked on endangered species esp. Philippine cockatoo and its habitat. Distribution of pamphlets, brochures and bookmarks to 11 elementary pupils
27-29-Oct-09	KCC workshop	KEEC Field house, Bgy. Poblacion, Dumarán	Basic Leadership and Team building workshop for KCC members. 16 high school participants attended the training
29-Oct-09	Katala Fun Day during Palay Festival	Lagoon Parkway, Narra	Conducted lecture, games and PCCP activities

05-Nov-09	Focus Group Discussion	So. Omoi, Bgy. Sto. Tomas	Gathered 7 residents. Talk and discuss re: endangered species and its habitats, PA. Distributed "Kalayaan, Kinabukasan natin" posters
06-Nov-09	Focus Group Discussion	KEEC Field house, Bgy. Poblacion, Dumarán	Conducted lecture re: Phil cockatoo & Rasa Island and PA. Distributed brochures & posters to residents of So. Barongbongan and high school students
09 & 23-Nov-09	Market surveys and FGD	Tagur and Samuk, Culasian	Observed wildlife traded in the market; Discussed on pertinent laws and restrictions at the protected areas in Rizal
13-Nov-09	Informal lecture	KEEC Field house, Bgy. Poblacion, Dumarán	Gathered 17 elementary pupils. Lecture re: Philippine cockatoo and Rasa Island conduct question and answer activity. Distributed IEC materials
16-Nov-09	Informal lecture	KEEC Field house, Bgy. Poblacion, Dumarán	Talked about Share a Place to Live concept; conduct question and answer activity; prizes given to those who answered questions correctly
24-Nov-09	Focus Group Discussion	So. Luyang, Bgy. Sto. Tomas	Talked about endangered species esp. Pawikan because most residents kill Pawikan for food
01-03-Dec-09	Informal lectures	KEEC Fieldhouse, Bgy. Poblacion, Dumarán	Gather ca 50 pupils from grades 4-6 and talk about the importance of mangroves, biodiversity conservation, and destruction of ozone layer.
11-Dec-09	Focus Group Discussion	KEEC Fieldhouse Bgy. Poblacion, Dumarán	Question and answer with 19 visitors about kaingin activities and confirmation of cockatoo sightings
12-Dec-09	Katala Fun day	Bgy. Luzviminda, Puerto Princesa City	43 students from Grade school to High school participated, lecture on Share a place to Live with question and answer activity was done. Distributed IEC materials. There was a problem on crowd control especially among kids.

Conservation education and linking

A meeting with Burdeos kaingeros (slash and burn practitioners) was carried out by Burdeos Municipal Agricultural Officer (MAO), PCCP Coordinator Liza Dans and a DENR representative, For. Noelson Caras on 13 November. Pertinent laws were discussed including the state of Polillo Islands environment, Chainsaw Act, P.D. 705, illegal activities and possible solutions to some environmental problems like flooding and solid waste management. Also in attendance was Burdeos Municipal Fisheries and Aquatic Resources Management Council President.

Before the meeting commenced, a perception survey was conducted with the attendees. Based on the response of attendees, they do not truly understand the concept of biodiversity, ecology and conservation.

A Prior Informed Consent Certificates signed each by both mayors of Burdeos and Patnanungan in December in preparation for the 2010 breeding season monitoring.

Constraints and measures taken

- Several issues have yet to be settled and acted upon by local authorities after we submitted report to the regional office, to wit:
 - ✓ Kaingin. 20 kaingin farms are being monitored from Salapacan, Litid and Duyan-duyan, measuring from 20 m² to 10has. Some kaingeros would occupy more than one kaingin. This problem was verified by For. Noelson Caras on 10-12 November.
 - ✓ Timber poaching also observed during recent visit with the Forester.
 - ✓ Hunting using guns & dogs in the municipalities of Polillo, Burdeos and Panukulan. It was reported

that 7 Agta-Dumagats went around the forests of mainland Polillo marking trees in forests as indications for their ancestral domain claim. Chieftain Merlito Roldan of Sitio Anuwan, Brgy. Anibawan was interviewed on 13 November and confirmed the use of guns and dogs in Duyan-duyan Forest.

- ✓ Operation of illegal chainsaw and cutting of trees without permits.
- ✓ Conversion of mangroves to fishponds in Brgy. Cabungalunan.
- Several sacks of bonsai (*Pemphis acidula*), which is listed as an endangered species, were confiscated by Burdeos MFARMC and PNP in Brgy. Calutcot.

Output 7. Katala Institute for Ecology and Biodiversity Conservation further developed

Road construction progressed considerably during this last quarter; 342m³ of backfilling materials were used for the access road construction. The road until the main entrance gate of KIEBC is already passable, the material needs however still to be compacted.

In September, a team of the national TV channel ABS-CBN visited KIEBC.

The self-monitoring-report (SMR) for 3rd quarter was submitted to authorities on 15 Oct. 2009.

In November, KFI staff Diverlie Acosta attended one month training in veterinary medicine and animal husbandry in Hong Kong. The first three weeks were spent at Kadoorie Farm and Botanic Garden (KFBG) in Tai Po and then one week at the Ocean Park (OP) in Aberdeen. In her absence Mr. Salvador (Dong) Guion from PWRCC conducted weekly check-ups of the animals at KIEBC. During the wardens refresher training Diverlie was able to provide feedback on her training to wardens and staff.

From Dec. 7 to 23, 2001 a veterinary student from the University of the Philippines in Los Banos conducted an internship at KIEBC.

After a series of interviews a full-time zookeeper, Emanuel Coñate, was contracted for 2010. He had a first training in December and volunteered at the center when wardens and staff were out for refresher training. He will be under probation from January to March 2010.

Renovation of the caretaker house started and inner walls of rooms were painted.

Landscaping and development of the KIEBC

Major activities for this period included:

- *Improvement of turtle enclosures (see succeeding update under PFTCP).* The Turtle Survival Alliance (TSA) had sent a team of experts to assess husbandry of the Philippine Forest Turtle and to provide advice for the design of the filter and settling pond to improve the water quality in the enclosures.
- *Construction and landscaping of the porcupine enclosure.* The last quarter of 2009 served to finish the enclosure including moat, viewing area, den and furniture. Early next year, the enclosure will get the final landscaping touch through planting of shade providing native trees. Once an agreement with PWRCC for the loan of specimens has been signed, we intend to loan two individuals for educational purposes.
- *Construction and landscaping of the cockatoo aviary.* The Philippine cockatoo aviaries have been finished. The two 4x8x3m aviaries are connected by a sliding door to provide birds the access to both aviaries if feasible. During the transfer of the birds from the small to the new large

aviary it is intended to leave the door open so that all five individuals can freely use the entire length of 16m. Transfer is scheduled for late January or early February.

- *Planting of pioneering and food trees for cockatoos at perimeter areas, quarantine and turtle areas and near the cockatoo aviary.* Some 900 seedlings of 10 tree species and more than 100 large trees were planted in KIEBC in September.
- *Perimeter fence.* The bamboo temporary fence collapsed and still we only have 22 m of permanent perimeter fence.
- A KIEBC status report was published in November in the ZGAP newsletter No 25(2).

Philippine Cockatoo

Blue 80 (female) is still bald and manifests behavioral problems. Brazil 78 (female) had temporarily started plucking but stopped after a while and feathers are now fully re-grown. She also shows disturbed behavior though. Pandanan 08 or Pinky Pan's continued plucking and is now as bald as Blue, some feather are however re-growing.

In late November, Violet 74 (male) suddenly started first plucking and then injuring himself at the crop area. After consulting the local veterinary at PWRCC the bird was transferred to the clinic at PWRCC and was stitched on Dec 1, 2009. The wound was treated and covered with a bandage and collar to protect the wound and prevent further nibbling. The wound has healed nicely but the bird is still under strict supervision at PWRCC. This was reported to PAWB Director.

Despite behavioral problems, all birds are feeding well and stable in weight (Fig 16). The veterinary intern reported that birds

have dry flaky skin. She further reported that between 6 to 9am, birds were observed to be most active.

Fecal analysis done by the intern revealed negative on parasites. We hope

that the transfer to the new large aviary will bring positive changes and birds will hopefully stop plucking.

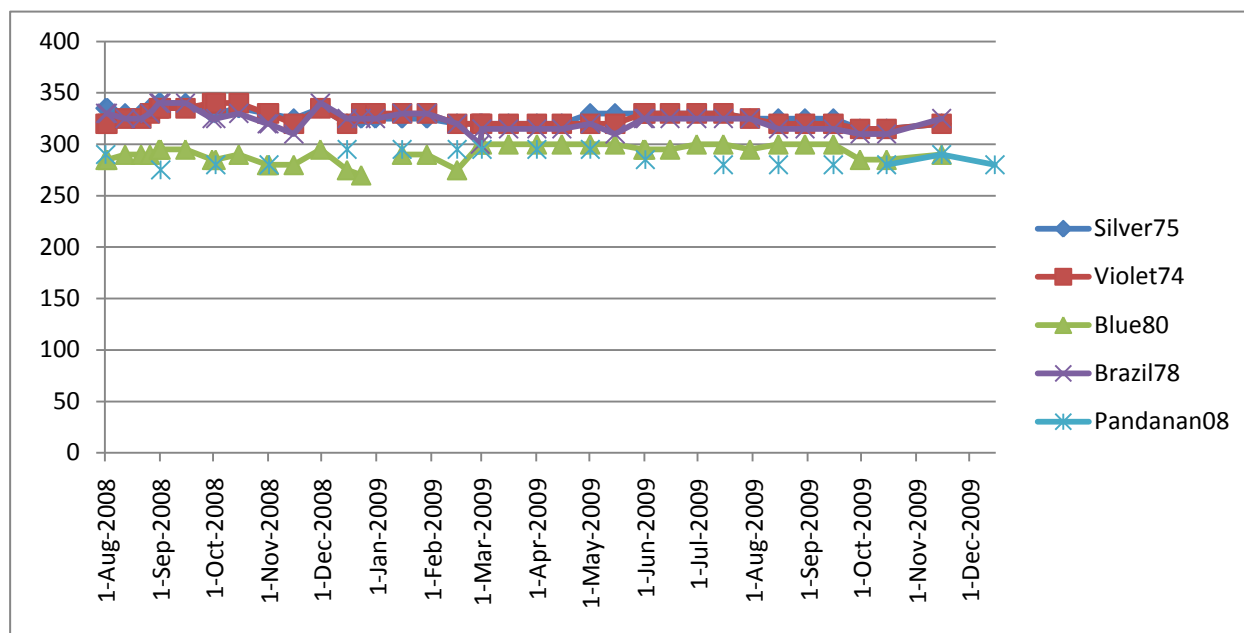


Figure 16. Weights of cockatoos at KIEBC.

Philippine Freshwater Turtle Conservation Project (PFTCP)

Assurance colony. As of 31 December 2009, KIEBC holds an assurance colony of 34 *Siebenrockiella leytensis*, 25 *Cuora amboinensis*, 11 *Cycllemys dentata*, and 1 *Dogania subplana*. All were regularly monitored for growth, and dewormed once during the reporting period.

Reproduction. Male Southeast Asian Box Turtles mate year-around and some of their female partners have already injured necks from the violent mating procedure. The species is known for such violent behavior. Eggs were encountered in September and October, but not anymore in November and December. A total of nine *Cuora* hatched during the reporting period. *Cycllemys dentata* did not lay any egg and *S. leytensis* had deposited one, but it had a crack.

Nutrition. We started feeding freshwater gastropods to the turtles to supply with additional calcium.

Health. During monthly inventory in September it was noted that some *S. leytensis* had re-developed shell rot while all other species were healthy. Sick individuals were again separated in quarantine enclosures and set on medication.

Husbandry. Mid September, the Turtle Survival Alliance (TSA) - as a follow up of the earlier visit of Dr. Nimal Fernandez - had sent a team to assess husbandry conditions of *S. leytensis*. The team was headed by Rick Hudson, president of TSA. High pH, eventual inflow of waste waters from surrounding pastures and stress among male individuals were identified as problems that need immediate attention. Hence, males were

placed in individual compartments and a filtering pond system was designed by Bill Zeigler, who is specialized in pond filtering systems. Estimated cost for the filter and settling pond system are USD 11,000. TSA committed USD 5,000 and we have submitted proposal to the Turtle Conservation Fund (TCF) for counter funding; decisions are due in late February. An article about the TSA visit was published by Rick Hudson online in September

(<http://www.turtlesurvival.org/blog/1-blog/66-team-tsa-in-asia-september-2009>).

Research. In September, KFI received the hard copy of the SEP Clearance that was issued by PCSDS for fieldwork to assess population trends of the Philippine Forest Turtle in Palawan. The approval was made already in June 26, 2009. Fieldwork was conducted in August and October. The final report for the project *Siebenrockiella leytenensis* over time: are populations stable? (Phase 2008-2009) had been submitted to the funding agency in October. Information drives and distribution surveys of the Philippine Forest Turtle were conducted along the west coast of Puerto Princesa in September and October.

IEC. A new project “In situ conservation of the Philippine Forest Turtle

Siebenrockiella leytenensis through information education” that is funded by NEZS started in October. A pre-project survey was conducted at the pilot site in October and at the control site in December. A stakeholder workshop was held on December 14, 2009 (Fig. 18). Dina Ibanez was hired as Community Organizer for this project and she was trained in December. Still another new project “BACOCO – Conservation of the Philippine Forest Turtle *Siebenrockiella leytenensis* in Palawan” funded by Wildlife Without Borders Critically Endangered Animals Conservation Fund of the USFWS started with the project preparations in October as well.



Figure 18. The stakeholders meeting in Tagabinet successfully planned awareness campaigns for 2010. ©KFI

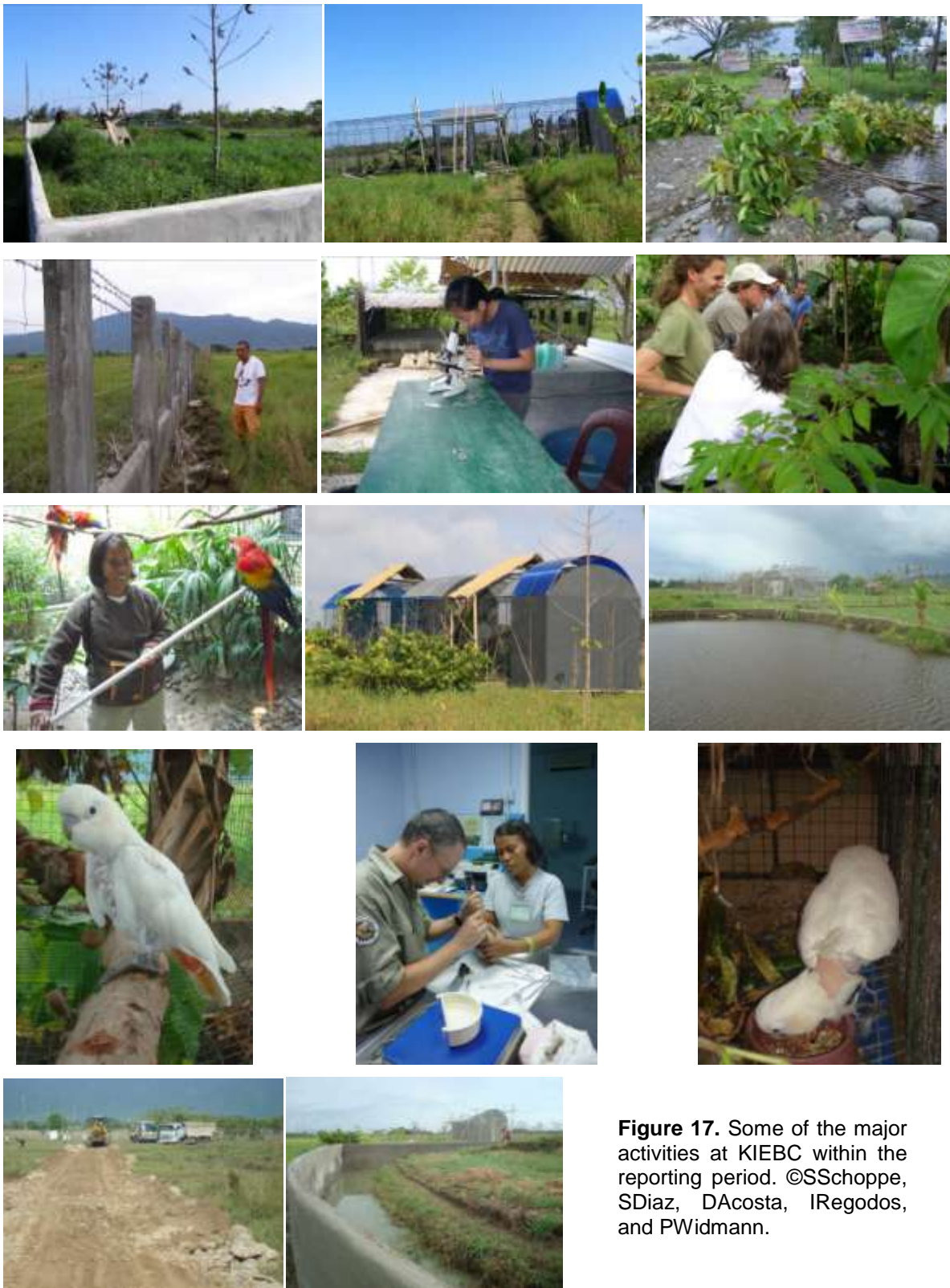


Figure 17. Some of the major activities at KIEBC within the reporting period. ©SSchoppe, SDiaz, DAcosta, IRegodos, and PWidmann.

Continue submitting proposals to other potential donors

- KFI submitted proposal for a sub-grant under Conservation International- Palawan Program for the wardening scheme in Rizal. The duration of the said grant is November 2009-June 2010 only. The proposal includes provisions of incentives for the wardens, capacity building through backyard gardening and the participation to the wardens' refresher course.
- Another proposal for financial assistance for the wardening scheme in Rizal wardens was submitted to the Municipality of Rizal through the Office of the Mayor. This was approved and funds were used from September to December 2009.
- The Municipalities of Narra and Rizal have approved Two hundred thousand pesos for 2010 while Dumarán approved One hundred fifty thousand pesos for 2010 as appropriations for the conservation of Philippine cockatoos and its habitat in the respective areas. KFI submitted these proposals in September.
- A pre-proposal to study the movements and use of dens of selected individuals of the Philippine Forest Turtle was submitted to Cleveland Metroparks Zoo in September. It passed the first evaluation round, and a full proposal was submitted in November.
- A proposal to counter finance the construction of a pond water filtering system was submitted to TCF in November.
- La Ola granted additional 500 Euro for the carbon initiative in Dumarán.

Constraints and measures taken

- The limited analytical options to assess wildlife health in Palawan, e.g. no x-ray, no means to assess for internal parasites remain a problem.

Other highlights

PCCP Wildlife Wardens Refresher Course and Christmas Salu-salo

This year's Refresher Course for PCCP wildlife wardens was conducted in the Training Hall of the Department of Agriculture at Irawan, Puerto Princesa City. All wardens and volunteers from four project sites including the newest site Pandanan participated in the three-day training which concluded with Christmas get together for all KFI family. On the evening of the 16th December, we started the orientation and separate site meetings to discuss and solve administrative matters first. The days ahead were full from early morning with birding activity and learning to use the common equipments until evening sessions on animal handling. Topics covered were the relevant laws presented by speakers from PENRO and the PCSDS. There was special session on introduction of the scheme used by CI in Rizal. This was particularly requested because of the sub-grant CI has approved for our Rizal wardening scheme. A lively and interactive lecture was given by Phil National Police on Human Rights and Enforcement. There was utmost interest among wardens in learning the topic. Similar reception was given to speakers of Team Building session. Most importantly, wardens were re energized of their duties and responsibilities and used the occasion to exchange experiences, challenges and insights among each other. This was particularly important for the new recruits from Pandanan.

On the evening of the 18th, we had our Christmas gathering which was

punctuated by the presence of Western Command Intelligence Unit Head, KFI Vice President PWidmann and our partners from the PCC, PWRCC and CI-Palawan Program. Highlights were giving of the gifts from our KFI President, presentations from each site and the opening of the big box from Netherlands which was full of used clothing.

We are grateful to Pres. JM Zubiri, Elisita Ponce, Debby and Erwin van den Beukel and our friends from Netherlands: Mark and Chared Verschuur, Rowena Gelacio, Leyna and Alexie Gelacio, Mary Ghil Gelacio, Alex and Mary Kluijver

Please see Annex 1 for photos taken during the course and the Christmas gathering.

Philippine Birdfest 2009

In September, KFI through the PCCP participated in the 5th Philippine Birdfest

held in Balanga City, Bataan. Lecture was given by MManalo on “Share a Place to Live” which was attended by ca. 130 students. Despite some organizational and technical problems, the presentation went well with students (grade school and college) asking relevant questions. Information materials e.g. posters, cockatoo postcards and shirts were given as tokens. The KFI booth was well visited and acknowledged. We featured the roles of birds as seed dispersers in our booth. Sec. Durano of Dept. of Tourism and other relevant government agencies showed interest about the PCCP. Face painting was also done in the booth and this was well received. In general, there was good exchange of opinion and experiences as to how local government can participate in conservation work.



Figure 19. Katala participation during the 5th Philippine Birdfest in Bataan. ©MManalo

Katala Fun Day, Bgy. Luzviminda Fiesta

In December, PCCP was invited by Bgy. Luzviminda during its fiesta celebrations to conduct Katala Fun Day. Katala, the mascot with its dance rendition was a hit expectedly not only among kids but adults alike. Interactive lectures were conducted along with fun games prepared by MManalo and IRegodos through the help

of TJ Fernandez from the Palawan Conservation Corps. Coloring activities and face painting were not only participated by kids but with mothers as well.



Figure 20. MManalo, PCCP Education Officer talks about the Share a place to live concept popularized by KFI during the Katala Fun Day in Bgy. Luzviminda, Puerto Princesa City. ©KFI

Calamianes Project Cooperation with FFI-Philippines Program

On Nov. 24, 2009, KFI was assessed for accreditation by one of the Municipal Council member of the Municipality of Culion, Calamianes Islands.

SEP Clearance was issued on Nov. 26, 2009 at the PCSD Council meeting in Quezon City, Luzon.

Papers published, submitted for publication to relevant journals, relevant reports and media mileage

- Peter and Indira Widmann. Cacatoès des Philippines et populations locale: le programme de conservation a dix ans, CEPA Magazine, N°19-20 September 2009.
- Schoppe, S. Widmann, I.L., Widmann, P and S. Diaz, 2009. Erhaltung der Artenvielfalt für spätere Generationen: Fortschritt des Katala Institutes für Ökologie und Biodiversitätsschutz (KIEBC). ZGAP Mitteilungen, 25 (2): 10-11.
- Schoppe, S. and M. Cervancia, 2009. Herpetological surveys along Pagdanan Range and Dumaran

Island, Northern Palawan, Philippines. Hamadryad, 34(1): 95-106.

- Rick Hudson, Team TSA in Asia – September 2009. Asia blog Sept. 2009 (<http://www.turtlesurvival.org/blog/1-blog/66-team-tsa-in-asia-september-2009>)
- Christmas gathering and refresher course press releases were published online

Other remarkable records/events

- MPlazos sighted a cockatoo at Baltan area in Puerto Princesa on 7th October 2009;
- In September, three species of frigate birds were sighted by PWidmann in PPC;
- Cockatoo sightings in Tagabinet were repeatedly reported to us and confirmed;
- Cockatoo sightings at the Penal Colony in Iwahig were reported. No recent surveys had pushed through as yet.
- WESCOM survey in September did not yield any cockatoo sightings. Entry to WESCOM grounds meanwhile is approved.
- KFI assisted WPU students in the preparation of a proposal to study the population size and structure of Monitor Lizards on Rasa Island.
- While conducting research on freshwater turtles in Northern Palawan, we recorded the Palawan endemic, vulnerable discoglossid frog *Barburoula busuangensis* from Roxas for the first time.
- KFI signed MOA as member of the Palawan Research and Development Consortium (PARDEC) on 24 Nov. 2009.

- KFI signed MOA on 28 Dec. 2009 as member of the Multi-partite monitoring team for Dos Palmas Resort, Palawan.

Summary of relevant seminars, expeditions and workshops organized and attended

- Palawan Association of Pollution Control Officers meeting at Legend Hotel, Puerto Princesa City on 17 Sept. 2009.
- Global Legal Action for Climate Change (GLACC) meeting at the Coliseum, Puerto Princesa City, 23 Oct. 2009.
- Leadership and Team Building Workshop, 27-29 October 2009, Dumarán, Palawan.
- Veterinary medicine and husbandry, Kadoorie Farm and Botanical Garden, 9-28 Nov. 2009, Tai Po, Hong Kong.
- PCSD council meeting regarding Calamianes project, 26 Nov. 2009, Quezon City, Luzon.
- Veterinary medicine and husbandry, Ocean Park, 29 Nov. to 4 Dec. 2009, Aberdeen, Hong Kong.
- Refresher Course for PCCP Wildlife Wardens, 16-18 December 2009, DA Training Center, Puerto Princesa City, Palawan.

Office and Personnel

- Medical check-up for all wardens, volunteers and staff were completed. One warden from Dumarán is not fit to work as warden anymore due to heart illness.
- A local area coordinator was hired and started working in Pandanan, Balabac in December.
- A community organizer for the turtle project in Tagabine, Puerto Princesa

City was hired and will start in January 2010.

- Full-time zookeeper for KIEBC was hired and trained in December. He will take over all caretaker responsibilities in January 2010.
- Former turtle keeper Diverlie Acosta was assigned to turtle research projects but will continue monthly inventories and health inspections of all animals in KIEBC.
- Bird keeper Monico Beleg will retire in 2010 and is replaced by the new zookeeper.

Equipment Status

- Three binoculars from the WildBird Club Philippines were received as donations. These will be used for Pandanan wardens for duty.
- Two digital cameras with defective lenses need replacement. The video camera is also defective.
- We are considering selling the Abukay big boat to replace a much smaller boat but bigger than Katala service boat for easy maintenance. Project boats had few repairs e.g. propellers; after damage caused by northeast monsoon and typhoons in September and October.
- The field house in Dumarán needs major roofing repair. Some of its wooden floors had been replaced and fencing its ground floor had been completed.
- The cellphone issued for Rizal wardens was repaired while one of the two of the Narra wardens was replaced. We are thinking of purchasing two units of hand-held radio for better communications for Rasa.

Implications for further work

- The Pandanan project site is a great potential considering the area of the island with good forest cover and the protection status done by the Jewelmer Corporation. Poaching is the one which needs to be abated and probably putting up a local task force engaging the private enterprise will help. We hope with the wardening scheme in place, we can mitigate poaching.
- There is great need for alternative livelihood projects in all project sites. We are still exploring options with the German Embassy.
- Polillo project is progressing slowly. With rampant and unmitigated environmental problems, apparently conservation work is put at risk. The isolation of the area contributes to very poor visibility of authorities.

Planned targets and activities for the next reporting period

Objective 1: Translocation planning for Philippine cockatoos

- Further improve facilities to temporarily accommodate birds suitable for translocation (see Objective 7).
- Conduct National Workshop on the Development of Re-introduction Protocol for the Philippine Cockatoo by March 2010.

Objective 2: Conservation of cockatoo population on Pandanan Island, Balabac initiated

- Establish linkages to local stakeholders, particularly local government, poachers, farmers, private entities and school teachers.
- Conduct research and monitoring of nest sites and monitor roost site.

- Intensive monitoring for breeding season through wardening scheme.
- Initiate small livelihood project as confidence building measure.

Objective 3: Conservation of cockatoo population on Rasa Island, Narra continued

- Continue wardening scheme.
- Assist and capacitate Protected Areas Management Board in the management of the Philippine Cockatoo and Rasa Island Wildlife Sanctuary and stepwise hand over responsibilities.
- Intensify conservation education for stakeholders, particularly in mainland areas which are regularly frequented by cockatoos.
- Continue research on conservation-related aspects of cockatoo biology on Rasa.

Objective 4: Conservation of cockatoo population on Dumaran Island, Dumaran continued

- Continue wardening scheme.
- Assist and capacitate Local Protected Areas Management Committee in the management of the Philippine cockatoo, as well as Omoi and Manambaling Cockatoo Reserve.
- Create buffer zones around existing cockatoo reserves, preferably including creation of alternative livelihood options and conduct plant inventory.
- Conduct conservation education and assist in community empowerment for stakeholders.
- Continue research on conservation-related aspects of cockatoo biology, particularly habitat restoration.

Objective 5: Conservation of cockatoo population in Culasian Managed Resource Protected Area, Rizal continued

- Continue wardening scheme and collaborate with other organizations to sustain the scheme.
- Assist and capacitate local Protected Areas Management Committee in the management of the Philippine cockatoo and Culasian Managed Resource Protected Area.
- Continue research on conservation-related aspects of cockatoo biology.

Objective 6: Polillo Islands Parrot Project promoted

- Continue wardening scheme for Philippine cockatoo and other parrot species.
- Continue conservation education for threatened parrot species within the archipelago.
- Assist in capacity development of local stakeholders for management of threatened parrot populations and their habitats.

Objective 7: Katala Institute for Ecology and Biodiversity Conservation further developed

- Continue development of quarantine area, off- and on-show aviary to accommodate rescued cockatoos and/or cockatoos destined for translocation.
- Improve standard of animal husbandry through employment of full-time zoo keeper and continued capacity building of local partners as assistant keepers.
- Finish porcupine enclosure and initiate legal basis for donation of porcupines from the local rescue center.
- Continue landscaping with native species propagated in the Katala nursery.
- Continue submitting proposals to other potential donors especially for structures intended in the area e.g. Education Center.

Worksheet September-December 2009, PCCP, Palawan, Philippines

KEY PROJECT ACTIVITIES	DATE	INVOLVED PERSON(S)
Consolidation of mainland sightings data. Summary warden's duty at CMRPA and consolidation of raw data.	2-Sep-09	SHD, IR
Car check up	2 & 5-Sep-09	IDLW
Inventory of books at KEEC	3-Sep-09	Melai
Breeding Season Assessment in Narra	4-Sep-09	IDLW, SHD, MM, IR, DA
Preparations for TSA visit	6-Sep-09	SS, MM, DA, IR
Meeting with Narra mainland volunteers. Visit to Malinao re Agri Project.	6-Sep-09	IR, SHD
Encode evaluation 2009 of Narra wardens, facilitation of lot legal documents at Roxas, Palawan	7-Sep-09	MM,MP
Welcome & visit of Turtle Survival Alliance Team	7-9-Sep-09	DA, SS, IDLW
Preparations for LPAMC Rizal, LPAMC meeting, Rizal wardens meeting.	6-9-Sep-09	IDLW, IR
LPAMC Rizal Meeting. Wardens BS Assessment Meeting.	8-9-Sep-09	IDLW, IR, wardens
Attendance to LPAMC meeting Dumaran	8-Sep-09	SHD
Monitoring of cockatoo sightings in So. Telban, Dumaran	10-Sep-09	MP, wardens
ABS-CBN team visited KIEBC	10-Sep-09	DA, IR
PFTCP project. Liquidations.	12-Sep-09	SS, DA
Pre-project survey questionnaire, IEC turtle Tagabinet	13-Sep-09	SS
Visitation at Wescom area, consolidation of mainland August sightings data	14-Sep-09	MM,SHD
Finances. Replenishment external accounts	14-Sep-09	SS
ATCN proposal for home range <i>S. leytensis</i>	15-Sep-09	SS
Turtle monthly inventory	16-Sep-09	DA
Proposal writing. Finances.	16-Sep-09	SS
Summary of wardens August report	17-Sep-09	IR
Cleveland metrobanks Zoo proposal for <i>S. leytensis</i> . Meeting with CI re wardening scheme Rizal.	17-Sep-09	SS, IDLW
Verification of reported BNP caught from trap at kaingin, retrieval of BNP.	18-Sep-09	MP, wardens
Proposal submitted. PFTCP West coast Survey	18-Sep-09	SS, DA
Environmental lecture to "Camp o Rama" GSP at Panacan National High School	19-Sep-09	SHD
Data analysis west coast survey. Revision of questionnaire.	19-Sep-09	SS
ZGAP article	20-Sep-09	SS
Visit of Managers and Consultants, roosting count in Rasa.	21-Sep-09	IDLW, PW, SS, SHD, IR, DA
Monitoring of cockatoo roosting at So. Lagan: Observed 15 cockatoo individuals	22-Sep-09	MP, wardens
Meeting with Municipal Mayor, Engr and MPDC re access road and municipal appropriation 2010 for Rasa. Meeting with CENRO Tactay	22-Sep-09	IDLW, SHD
KIEBC inspection	22-Sep-09	SS, DA, IDLW, SHD, PW

Distribution of invitations to southern Barangay for environmental projects, coordination with Bgy. captains of Ipilan, Burirao, Tacras, Aramaywan & Calategas	24-Sep-09	SHD
Signed turtle SEP clearance received.	24-Sep-09	SS
Proposal writing for municipal appropriations.	24-Sep-09	IDLW
PTPR reproduction. Visa application for training DA. Meeting with Pandanan officials.	25-Sep-09	SS, IDLW
Preparation of PTPR for distribution	25-Sep - 1-Oct-09	MM
Proposal writing . Preproject survey questionnaire revision	26-Sep-09	SS
Planning meeting	27-Sep-09	SS, IDLW, PW
Tutorial in writing activity for Rizal wardens	28-Sep-09	IR
Verification of recent kaingin activities at Kurisom-kurisom & Bakaw-bakaw areas,	29-Sep-09	IR,DA
Purchase of bird supplies. Meeting with Sen. Zubiri	29-Sep-09	IDLW, PW
Research Priority workshop, PCSDS.	29-Sep-09	SS
Visitation of PSU-DBP project on Abaca and Rubber plant at Culasian, TWG meeting	30-Sep-09	IR, MP , wardens
TCF long term survey	29.Sept - 2.Oct-09	SS, DA
Attendance to Baguero case hearing in Araceli	2-Oct-09	MP
Data analysis turtle survey	3-Oct-09	SS, DA
Dumaran matters. Prep for bird fest. Pre-project questionnaire Tagabinet	5-Oct-09	SS, MM, SHD, IDLW, DA
Preparation of IEC materials and some items for bird festival in Balanga City, Bataan	6-Oct-09	MM, IDLW
PARDEC MOA. LPAMC Dumaran agenda. Finances.	7-Oct-09	SS, IDLW
Attendance to 5th Philippine bird Festival	07-11 Oct-09	MM,SHD
Prep. meeting and training of enumerators for Tagabinet preproject survey.	12-Oct-09	SS
Reports consolidation and writing	13-Oct-09	IR
Turtle survey Simpocan.	13-Oct-09	DA
BS work plans 2010. LPAMC and PAMB preparations.	13-Oct-09	SS
Attendance to Municipal Dev. Council Meeting at SB Hall, Dumaran Palawan	14-Oct-09	MP
PARDEC meeting. PENRO re deputation of Narra wardens.	14-Oct-09	SS
Meeting with wardens, submission of SMR	15-Oct-09	SHD,DA
Climate forum, Palay festival preparations.	15-Oct-09	SS, IDLW
PENRO re deputation. PENRO regarding MMT for Dos Palmas. Interview applicant for CO Tagabinet.	16-Oct-09	SS
Preparation of IEC materials and items for Fun day in Narra and KCC workshop in Dumaran	16-25 Oct-09	MM
Final report TCF. <i>S. leytensis</i> species account writing.	17-18-Oct-09	SS
Distribution of workshop invitation letters to selected KCC members	19-Oct-09	MM

Cost estimates and proposal reparation <i>S. leytensis</i> filter pond. TCF final report, finances. Canvass equipment. BPI re correspondent bank	19-Oct-09	SS
Pre-project survey Tagabinet.	19.-27.Oct-09	DA and team
At Langkan Bay, area of Bgy. Bohol for expedition/survey	20-Oct-09	MP
Meeting with WPU students and advisor regarding monitor lizard study Rasa. Travel arrangement D. Acosta for training in HK. Order or material for breeding season 2010. Coordination regarding LPAMC meetings.	20-Oct-09	SS
Interview applicant. SDENRO and Conso Narra. Work plan BS 2010. TCF Final Financial report preparation. Review of previous applicants to KFI	21-Oct-09	SS
Preparation of Bacoco demographic profile	22-Oct-09	MM
Coordinating Culasian kaingin inspection trip by PCSDS. Preparations for BACOCO. Coordination landau students	22-Oct-09	SS
GLACC meeting. TCF Finances	23-24-Oct-09	SS
Interview vet intern from UPLB. Compiling info for climate change Palawan lectures. Proposal for <i>S. leytensis</i> tank.	25-26-Oct-09	SS
Financial report reviews and revisions	26-Oct-02-Nov-09	IDLW
Interview applicants. Bank matters. Communication.	27-Oct-09	SS
Attendance to KCC leadership and team building workshop	27-28 Oct-09	MM
Katala fun day-Narra festival	29-Oct-09	SS, DA,IR,SHD, GB
Finances, communication, interviews.	28-30-Oct-09	SS
Proposal Writing for CI-sub grant.		IDLW
KIEBC. Submission of husbandry proposal to TCF.	31-Oct-09	SS, Dong Guion
Roost count Rasa	2-Nov-09	SHD
Attendance to 15 th PAMB meeting held at SB Municipal Building, Narra.	3-Nov-09	SHD,IR, SS
Preparations for Dumaran Travel.	3-5-Nov-09	IDLW
KIEBC inspection, Narra.	4-Nov-09	SS, DA, SHD
Consolidation of Dumaran October reports	4-5 Nov-09	MM
Quarterly turtle growth monitoring	4-5 Nov-09	DA
Interviews. PCSDS re PARDEC MOA	5-6-Nov-09	SS
Travel to Dumaran, LPAMC Meeting	8-14 -Nov 2009	SHD, MP, Melai
Construction of Artificial Nest boxes	8-10 Nov 2009	SHD, MP, wardens
Training in Ocean Park (OP) and Kadoorie Farm and Botanic Garden (KFBG) Hong Kong	8 Nov - 5 Dec-09	DA
Hongkong Travel (Kadoorie and Ocean Park for training)	9-10-Nov-09	SS
Patnanungan and Burdeos visit	10-20-Nov-09	LD
Pick up requested maps at PCSDS, KFI lot assessment	11-Nov-09	MM, SHD, MP
Talk with Sec. Said of Balabac re accreditation of KFI and endorsement	11-Nov-09	IDLW
Travel. SEMP / Calamianes Project. Communication.	11-Nov-09	SS
Lot assessment in So. Omoi, ECAN board meeting	11-12 Nov-09	SHD, MP, Melai

LPAMC schedule, installation of Artificial Nest boxes, ECAN Board meeting	12-Nov-09	SHD,MP, wardens
Proposal submission to Cleveland Metroparks Zoo. Calamianes update. Liquidations. Volunteer agreements. Preparations stakeholder workshop Tagabinet. Interview and evaluation. TCF 0096 Final Financial report writing and submission.	13-16-Nov-09	SS
Follow on shirts orders. CI-sub grant. KFI Financial Report.	13-17-Nov-09	IDLW
TGT car check up. BPI. Follow up PCSDS re Calamianes clearance. PFTCP work plan 2010-2011. Rizal BS work plan 2010. PARDEC research projects	17-Nov-09	SS
Visitation to mainland volunteers areas and collection of map on the dispersion of cockatoos at the mainland.	18-Nov-09	IR
Preparation for GP 2010. GP report 2008. SEP clearance Pandanan. Interview.	18-Nov-09	SS, IDLW
Coordination with Kap Ariel Dalma re: Fun Day in Bgy. Luzviminda, Furnish copy of SDENRO, CONSO and Breeding Season at DENR-Narra office	19-Nov-09	MM,IR
Meeting PCSDS re clearances, PARDEC, ECAN maps. Preparations control group Tagabinet	19-Nov-09	SS
SEP Clearance Pandanan preparations	20-Nov-09	SS, IDLW
Cockatoo monitoring at Wescom, meeting with Vice Mayor of Balabac	21-Nov-09	MM,SS
Meeting Vice Major Balabac.	21-Nov-09	SS
SB session Balabac re. Resolution. Meeting Sander from Southsea Exclusive. Preparation of stakeholder workshop. Preparation of IEC materials	23-Nov-09	SS
Interviews with final CO candidates. PARDEC MOA signing. Meeting with Kagawad Reyes re accreditation of KFI by Municipality of Culion. PENRO re confiscation records	24-Nov-09	SS, MM
Badges design and evaluation sheet for training	24-27-Nov-09	IDLW
Meeting with enumerators regarding control group survey. Interview with BACOCO assistant and zookeeper	25-Nov-09	SS
Submission of SEP clearance application requirements at Vice Governor's office, coordination re: wardens schedule of medical check up, coordination with Pandanan re: refresher's training and Christmas party, setting of ANB in aviary	26-Nov-09	MM,SHD
Attendance to 11 th LPAMC-CMRPA meeting in Rizal Palawan, consolidation of Reports	26-Nov-09	IR, SS
PCSD council meeting Mnl regarding Calamianes project. Renewal of staff contracts. Submission of request for endorsement of Pandanan to Province	26-Nov-09	SS
Emergency consultations regarding Violet	30-Nov-09	SS, IDLW, PW
Facilitation of transport permit for Violet, transport of Violet to PWRCC	1-Dec-09	IR, SHD

Emergency consultation re Violet, transport of bird to PWRCC. Salary disbursement. Liquidations. Progress report GP 2008. Application for GP 2010. Flip chart prep for stakeholder meeting	1-Dec-09	SS, IDLW
Distribution of invitations for stakeholder meeting. Preparations wardens refresher training	2-Dec-09	SS, DI
Checking of venue for refresher's training, visit violet at PWRCC	3-Dec-09	SS,MM
Preparation for refresher, canvassing venue and catering	3-Dec-09	DI
Library books arrangement	4-Dec-09	Melai
Preparation for refresher, canvassing catering. Invitations. Application for transport permit Violet	4-Dec-09	SS, DI
Tagabinet pre-project survey control group.	6-12 Dec-09	ZE (enumerator)
Preparation of IEC materials for Luzviminda, items/materials, equipments for stake holder's meeting, refresher's course and Christmas party	7-16 Dec-09	MM,IR
KIEBC: Intro of vet intern. Distribution of invitations for stakeholder. Issuance of transport permit Violet. Liquidations	7-Dec-09	SS
Facilitating training of community organizer, Veterinary intern and zookeeper in KIEBC	7-13 Dec-09	DA
Visitation of Abukay boat at Borbon area for inventory, facilitation for the accommodation of Rizal wildlife wardens for roosting activity at Rasa.	9-Dec-09	IR
New CO Dina Ibanez to KIEBC for training	9-Dec-09	SS, DI, DA
Assignment of budget items. Preparations stakeholder and refresher.	10-Dec-09	IDLW, SS
Office purchases. cargo in Manila, tshrit orders. Button badges.	10-Dec-09	IDLW
New zookeeper to KIEBC. Preparations stakeholder, refresher	11-Dec-09	SS, EC
Meeting with Sen. Zubiri. Meeting with Forester Dhiocel re carbon quantification project	11-12-Dec-09	IDLW
IEC in Bgy. Luzviminda	12-Dec-09	MM, IR
Meeting with Liza Dans and office purchases.Logistics for Refreshers course: catering, program	12-Dec-09	IDLW
Preparations stakeholder Tagabinet	12-13-Dec-09	SS, MM, IDLW, DA, DI
Stakeholder's meeting in Bgy. Tagabinet	14-Dec-09	IDLW,SS,MM,DA,DI
Interview with Pandanan final applicants. Meeting with Pandanan Site Coordinator	15-Dec-09	IDLW
Preparations refresher training.	15-Dec-09	IDLW, SS, MM, IR
Refresher's Training Course and Christmas party	16-19-Dec-09	KFI staff, wardens
Trip to Patnanungan and Burdeos for GP PIC	16-19-Dec-09	LD
Coordination with For. Dhiocel and wardens for Dumarang travel.	18-19-Dec-09	IDLW, MP
Pandanan wardens and staff meeting	17-Dec-09	IDLW, wardens
Staff and wardens medical check up	19-Dec-09	MM,IR,DI wardens, IDLW
Deworming of S. leytensis	20-Dec-09	DA
Facilitation of PDAF and wardens payroll under municipality	21-Dec-09	SHD

Consolidation of Dumaran reports, Preparation of forms and IEC materials for Pandanan	21-23 Dec-09	MM, RA
Phenology and food providing trees identification	20-22 Dec-09	MP, wardens
Finances	22-Dec-09	SS, IDLW
Medical check up wardens and staff.	22-Dec-09	IDLW, wardens, IR, MM
Liquidations. Meeting with For. Dhiocel	24 & 26-Dec-09	IDLW, MP
Liquidation and PFTCP planning	27-Dec-09	SS
MOA signing with Dos Palmas	28-Dec-09	SS
Narra site visit. Meeting with staff. Coordination meeting with Engr. Parco, Engr. Fellizar re access road. Meeting with bird caretaker.	28-Dec-09	IDLW, SHD, PW
Design coloring sheets for turtles	29-30-Dec-09	SS
Supervision of aviary and porcuping construction, KIEBC landscaping	Sept-Dec-09	SHD
Preparations for Pandanan travel.	29-30-Dec-09	IDLW, PW
PTPR writing.	9-Dec-10	IDLW
Hauling of driftwood to KIEBC, nursery care and maintenance	Sept-Dec-09	SHD, wardens
Maintenance and operation of KEEC and library	Sept-Dec-09	Milai P.
Improvement and enhancement in aviary at KIEBC	Sept-Dec-09	SHD, MB, Dalisto, RC
Project management and operations	Sept-Dec-09	IDLW, SS

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ANNEXES

Annex 1. Photo documentation during the PCCP Wildlife Wardens Refresher Course and Christmas Salu-salu, December 2009, Puerto Princesa City, Palawan



