Philippine Wealth Accounting and Valuation of Ecosystem Services (PHIL-WAVES) Technical Assistance Project

ECOSYSTEM ACCOUNTING TRAINING Follow-up Course









CONTENT

Progress Report (Since February, 2014)

Results Achieved Methods Used Questions
Asked/
Issues
Encountered







Drafted detailed matrix on Trial Accounts with identified ecosystem pressure, services and indicators Narrowed down coverage of the pilot study in Southern Palawan to 3 areas within Mt.

Mantalingahan: one (1) in Española and two (2) in Brooke's Point

Participants were introduced to Ecosystem Accounting and to the analytical approaches used in Ecosystem Accounting February 10-14, 2014: Training on Ecosystem Accounting

Identified priority ecosystem service for valuation







Matrix for Data Availability and Data Gap Assessment was reviewed

Data availability for Ecosystem Pressure was presented

February 28, 2014: Small Group Meeting







Clarification on the definition of land cover *vis-a-vis* forest cover***

Identification of critical watershed areas

Refinement of matrices which represent upland, lowland, and coastal/marine areas

March 13-14, 2014: Joint TWG Meeting

Presentation of available thematic maps

*** According to NAMRIA, Land Cover is "the observed (bio) physical cover of the earth's surface" (FAO, 2000) while Forest Cover refers to the "natural and man-made forests, including forests with wetlands and built-up areas" (FAO, 2000).







include Coconut Plantation in the Accounts

policy regulation on land use (who will regulate?)

April 15, 2014:

no digitized map from the identified catchments for CADT/CADC areas

Meeting between the TWG (Local) and World Bank

in case no data is available in the catchment level, municipal level data can be considered subject to the approval of the experts/consultants







Developed detailed Framework for the Ecosystem Accounts and determined the methodology and data requirement

Developed a Preliminary Schedule of Activities and Work Plan

April 28, 2014:

Back to back TWG and Video Conference

Initial assessment of existing data for the marine/coastal, lowland, and upland ecosystem

Identification of policies/laws which are relevant for Ecosystem Account (land use and zoning)







Participants: NAMRIA,FMB,LLDA,PCSD (via phone), PMD,FASPS and Phil-WAVES, PCU

The positions of concerned bureaus on ESA's final proposal for the EO product were identified

June 04, 2014:

Small Group Meeting on ESA's Proposal

The concerned agencies/ offices affirmed to ESA's final proposal

ESA's Proposal: To refine (spatially) and update (inclusion of more classes) the existing NAMRIA land cover map for 2010 for catchment 3 (Pulot Subwatershed)







Result of the Consultation Meeting held on June 04, 2014 on ESA's Final Proposal for the Earth Observation Products

NAMRIA	On ESA's 8 Classifications: "Classification is fine as long as it will
A STATE	only be used for Phil-WAVES project and that the data to be generated
8.900	will not be used or affect the regular land cover project of
A 1939	FMB/NAMRIA."
FMB	"The proposal is fine as it will provide data on Forest density on the
A MARS	different land cover categories for 2010. However, it would be better if
	said data can also be generated for 2003 to give us an idea on the
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	changes in land cover and forest density overtime from 2003-2010."
PCSD	"Agree to accept the proposal in spite of the limitations especially with
0000	regards to the interpretation of cultivated land especially for coconut,
Trans of 9	oil palm, and irrigated paddy rice lands. Recommend to ESA the
0 0 0	inclusion for interpretation of the cultivated lands devoted to the
S	aforementioned crops."
LLDA	Has the same position with that of NAMRIA and 2010 as the based
0.	year.







Participants: FMB, World Bank Local Consultant, Phil-WAVES, PCU

June 18, 2014:

Small Group Meeting on Land Cover Change Matrix

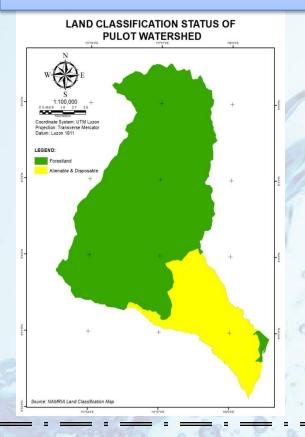
Analysis was made on the Changes on Land Cover of 2003 and 2010 in *Pulot* Sub-watershed vis-à-vis the ECAN Zone Map of Southern Palawan, LC, and Land Cover Maps

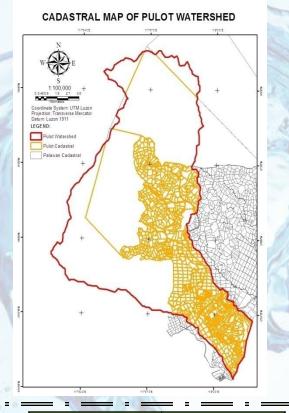
Cadastral Map vis-à-vis Land Classification Map: Encroachment on Forestland

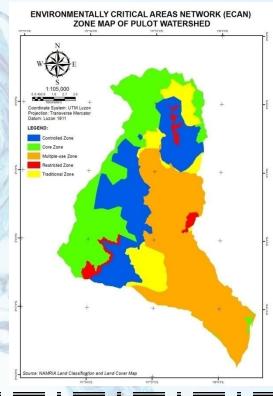












LAND CLASSIFICATION	AREA (ha)
Alienable & Disposable	3,931.20
Forestland	14,128.80
Grand Total	18,060.00

Name of Barangay	AREA (ha)
Iraray	27.45
Labog	397.61
Pulot II	6,382.92
Pulot Shore	1,430.56
Punang	3,709.43
(blank)	1,628.55
TOTAL	13,576.52

ECAN ZONE	AREA	
Controlled Zone	4,211.06	
Core Zone	4,756.10	
Multiple-use Zone	6,787.85	
Restricted Zone	469.30	
Traditional Zone	1,828.87	
(blank)	6.83	
Grand Total	18060.00	







Status on Data Collection per Ecosystem (Upland Forests, Lowland Croplands, Coastal Marine) Clarification on the extent of ESA's offer/ assistance

Progress Report on the Development of Ecosystem Account for Southern Palawan

June 25, 2014:

Midyear TWG Meeting

MOA instead of FPIC

Strengthened Communication Plan

Conduct of Policy Review on the existing laws and policies governing the issues identified by the Project in Southern Palawan

Need to hire experts on: GIS, Data banking, Hydrogeology







Ecosystem Account Framework by Dr. Gem Castillo was revised

Proposed trainings and workshops on the following were discussed:

July 15, 2014:

Preparatory Meeting for the Video Conference

^Bio-Physical Modelling

^Data Integration and Analysis Workshop

^Valuation of ecosystem services

^Building Geo-database

^Policy Analysis

Work Plan for the remaining 6 months (July to December, 2014) was agreed to be prepared





Metadata Matrices per Ecosystem Account (Lowland, Coastal/ Marine and Upland Ecosystem) Map Overlay Analysis Leading to Identification of Accounts per Ecosystem

Identified data needs for monetary valuation of ecosystem accounts

August 13-15, 2014:

Data Integration and Analysis Workshop Identification of Policy Issues, Recommendation, and Analysis Needs and

Plan of Actions by each Sub-group (Lowland, Coastal/ Marine and Upland Ecosystem)

Orientation on Basic Information on Data Consolidation and Mapping by NAMRIA







METHODS USED

Development of Ecosystem Account • Framework of Ecosystem Accounting in Southern Palawan

Identification of Ecosystem Key
Pressures

DPSIR Model

<u>Selection of</u> Sub-watershed

- Prioritization based on data availability
- Prioritization based on relevance to ecosystem key pressures







METHODS USED

Identification of Ecosystem Service (Coastal/ Marine, Lowland, Upland) and Land Accounts

Data Availability and Data Gaps Assessment

Ecosystem Data Requirements Secondary Data Gathering

Modelling of Ecosystems

- Spatial modelling of waters supply and demand through hydrologic modelling
- Reconnaissance Survey
- Focus Group Discussion (FGD)







METHODS USED

Identification of Sub-accounts for each ecosystem

Map Overlay Analysis (base map: land classification)

Metadata Collection Data Integration and Analysis

Policy Analysis Conduct of Policy Review on the existing laws and policies governing the issues identified by the Project in Southern Palawan







Policy-related

BMB: What are the policies that we need to address given that kind of data?

Standardization of boundary maps is needed

Create an Oversight Body (multipartite organization) to do monitoring on oil palm plantations

Encroachment in forest land area of cadastral lands

- Exploratory discussion among DAR, DA, and DENR on conduct of cadastral surveys in view of findings that cadastral surveys were undertaken within Timberlands





Technical

MGB cannot produce the data on mine tailings and other local data.

FMB on FRA: If the available data are on the scale of the province level, can that be used to assess the forest account for the entire Southern Palawan?

The available data on-hand are for biodiversity within Mt. Mantalingahan Protected Landscape. Can we use these data, using the same land cover, in those areas located outside MMPL?





Technical

Who will utilize the data once developed? Who are the stakeholders? Who are we catering?

Can we use provincial data to approximate development of account?

Can we use the data in different scales (LGU, provincial, watershed, and sub-watershed levels) for developing ecosystem accounts?





Technical

Exploratory discussion among DAR, DA, and DENR on conduct of cadastral surveys in view of findings that cadastral surveys were undertaken within Timberlands

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Financial

Cost sharing

BETF and RETF-related concerns













