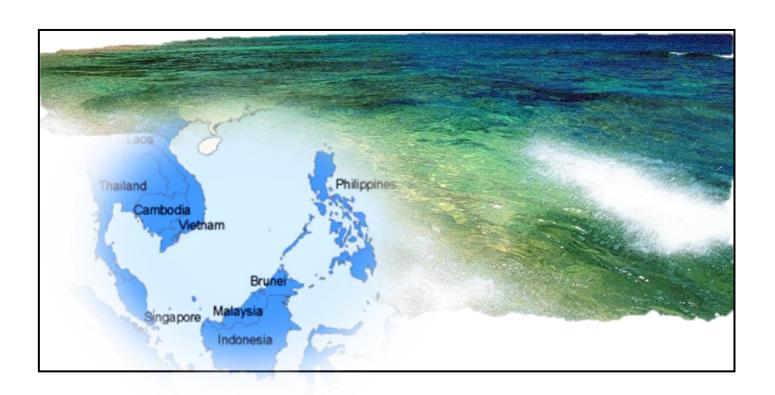




Set-up of a Professional Master's program on Tropical Marine Ecosystems Management (TMEM), a Tri-Campus offering of the University of the Philippines

TERMINAL REPORT

OCTOBER 24, 2011-JUNE 24, 2016



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Set-up of a Professional Master's program on Tropical Marine Ecosystems Management (TMEM), a Tri-Campus offering of the University of the Philippines

Terminal Report October 24, 2011 – June 24, 2016

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Implemented by: Marine Environment and Resources Foundation, Inc. (MERF)

Marine Science Institute Building, Velasquez St. University of the Philippines Campus,

Diliman, Quezon City 1101, Philippines; Telefax no. (632) 922-3962

Project Leader: Porfirio M. Aliño

Email: alinoperry018@gmail.com

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TABLE OF CONTENTS	L
ACRONYMS	5
EXECUTIVE SUMMARY	7
I. INTRODUCTION1)
II. PROJECT OBJECTIVES1)
III. OVERALL PROJECT APPROACH AND GUIDING PRINCIPLES1	L
IV. ACCOMPLISHMENTS VIS-À-VIS GOALS1	5
A. ACCOMPLISHMENTS ACCORDING TO THE GOALS ESTABLISHED FOR THE PROJECT	5 I 6

LIST OF TABLES

Table 1. Summary of Institutions met in Year 5 for Program collaboration in ca	
Table 2. The first batch of PM-TMEM students	29
Table 3. Oral presentations of the PM-TMEM students at the 13th National Marine Science	• •
Table 4. Special projects of the students as their culminating requirement of program, with Advisers from different UP CUs, including U	JP Mindanao

LIST OF ANNEXES

Annex 1. UP Board of Regents' approval of the PM-TMEM Collaborative Program	44
Annex 2.PM-TMEM Program Launches	52
Annex 3. Selected Inter-CU Management Workshops	62
Annex 4. PM-TMEM Scholarships from PFI and SMF	66
Annex 5. Workshop on Communication in TMEM, 18 March 2016	69
Annex 6. Marketing Material	7 4
Annex 7. Implementation of TMEM courses, Gallery	79
Annex 8. Course Implementation Evaluation Workshop, 22 April 2016	98
Annex 9. Pre-Commencement Celebration Hosted by the UP President Persons	102
Annex 10. Network of Professionals through Program Implementation Phase	107

ACRONYMS

AOTR Agreement Officer Technical Representative

ASEAN Association of Southeast Asian Nations

AAC Academic Affairs Committee

Asec Assistant Secretary

BFAR Bureau of Fisheries and Aquatic Resources

BMB Biodiversity Management Bureau

BoR Board of Regents

CAS College of Arts and Sciences

CC Course Coordinator

CFNR College of Forestry and Natural Resources
CFOS College of Fisheries and Ocean Sciences

CHED Commission on Higher Education

CIDS Center for Integrative Development Studies
CMMO Coastal and Marine Management Office

CRM Coastal Resource Management

CS College of Science

CSSP College of Social Science and Philosophy

CT Coral Triangle

CU Constituent University

DDI Deputy Director for Instruction

DENR Department of Environment and Natural Resources
DILG Department of Interior and Local Government

DLO Diliman Legal Office

DOST Department of Science and Technology

EBM Ecosystem-Based Management
EIDR Emerging Interdisciplinary Research

ENRO Environment and Natural Resources Office FPOC Fiscal Policy and Operations Committee

GS Graduate School

HRDO Human Resource Development Office

IBS Institute of Biological Sciences
ICM Integrated Coastal Management

IFPDS Institute of Fisheries Policy and Development Studies

LGU Local Government Unit

LGP League of Governors of the Philippines
LMP League of Municipalities of the Philippines

MERF Marine Environment and Resources Foundation, Inc.

MFI Malampaya Foundation Inc.
MLGU Municipal local government unit
MOA Memorandum of Agreement
MPA Marine Protected Area(s)

MSc Masters in Science

MSI Marine Science Institute
MSN MPA Support Network

NGO Non-Government Organization

OSSS Office of Student Services and Scholarships
OSU Office of the Secretary of the University

OUR Office of the University Registrar

OVCA Office of the Vice Chancellor for Administration
OVCAA Office of the Vice Chancellor for Academic Affairs
OVPAA Office of the Vice President for Academic Affairs
OVPLA Office of the Vice President for Legal Affairs
PCSD Palawan Council for Sustainable Development

PEMSEA Partnerships in Environmental Management for the Seas of East Asia

PFI Petron Foundation Inc.
PG Provincial government unit

PM-TMEM Professional Masters in Tropical Marine Ecosystems Management

PO People's Organization

SEA Southeast Asia

SEI Science Education Institute

SESAM School of Environmental Science and Management

SMF San Miguel Foundation

S-FPOC System Fiscal Policy and Operations Committee

TME Tropical Marine Ecosystem(s)

TMEM Tropical Marine Ecosystems Management

UP University of the Philippines

UPD UP Diliman
UPLB UP Los Baños
UPV UP Visayas

USAID United States Agency for International Development

VCAA Vice Chancellor for Academic Affairs
VCI Vice Chancellor for Instruction
VPA Vice President for Administration
VPAA Vice President for Academic Affairs

VPLA Vice President for Legal Affairs

Executive Summary

USAID/Philippines awarded a three-year cooperative grant of PhP21,428,814 (NTE \$522,654) to the Marine Environment Resources Foundation, Inc. (MERF) on October 24, 2011 to establish a Masters Program on Marine Protected Areas within the University of the Philippines (UP). MERF collaborated with the University of Klagenfurt (Austria), which has a similar graduate program largely applied in a terrestrial setting. The project aimed to establish a postgraduate program in the Philippines, that focuses on improving the effective management and good governance of marine protected areas (MPA). These efforts seek to contribute to the biodiversity conservation and sustainable development goals of the country and the coral triangle region. In June 2013, the project was re-named "Set-up of a Professional Master's program on Tropical Marine Ecosystem Management (TMEM) as a Tri-campus offering of the University of the Philippines" with a 1.5 year no-cost extension provided, thus extending the life-of-project to June 24, 2016. The modified program implementation modality as a collaborative offering by 3 UP Constituent Universities (CUs) within the UP System, was in alignment with the strategic plans and vision of the University for a "One UP" system undertaking.

Curriculum Development. The development of the curriculum framework, which was undertaken through workshops among the Marine Science Institute faculty with other MPA professionals, including some international consultants, was a major focus in 2012. These provided opportunities for networking with institutions and resource persons, who could be tapped for collaboration in the program. A number of the MPA experts were contracted for syllabi development. With the resulting interdisciplinary curriculum that was developed, a program implementation modality involving other UP CUs would enhance program sustainability with respect to faculty manpower from various disciplines.

Through Inter-CU workshops among the implementing units of UP Diliman, UP Los Baños, and UP Visayas, the curriculum framework and some courses were modified to incorporate a broader scope for a Professional Master's in Tropical Marine Ecosystems Management (PM-TMEM), with Marine Protected Areas as area of specialization.

University Approval Phase. As a collaborative graduate program among UP CUs, the approval of the curriculum and tuition fees had to go through a review and approval process within each of the collaborating CUs. The PM-TMEM curricular approval process in UP was initiated from March to May 2013 through the evaluation and approval by major review bodies at the College level within UP Diliman and UP Visayas. Major milestones in 2014 consisted of the endorsement of the program by curriculum committees at the CU-level and by the Academic Affairs Comittee (AAC) and the Presidential Advisory Council (PAC) at the UP System level. The PM-TMEM curricular proposal gained approval from the UP Board of Regents (BoR) on 30 June 2014. The approval of the program's tuition fees by the BoR followed on 30 October 2014. The process and relatively quick period was considered a novel for a tri-campus offering for the UP System.

Institutionalization Arrangements and Program Development. Through the course of the approval process of the PM-TMEM curriculum in 2014, the inter-CU Coordinating Body held work sessions to harmonize the various recommendations from the curriculum committees of the 3 CUs. These processes also helped firm-up inter-CU administrative processes involved in program implementation, including financial processes, marketing and admission procedures, and the development of documents on these Inter-CU arrangements. With the approval of the program, and consequent establishment of an Inter-CU Management Committee, these work sessions continued every trimester during program implementation from 2015 to 2016. Actual administrative procedures in relation to program implementation were evaluated and refined, and administrative task redistributions planned for the PM-TMEM program phase without USAID-project staff support.

Program Sustainability Arrangements. Public-Private Partnerships between the University and private foundations provided the PM-TMEM program with full scholarships. All the students in the first batch qualified for these scholarships. To formalize the partnership, Memoranda of Agreement were signed between UP and the Petron Foundation Inc., San Miguel Foundation Inc., Malampaya Foundation Inc. and MERF. Support for the students' research on MPA management and governance baseline data for their respective areas was through a research grant for a collaborative project through the Center for Integrative Development Studies (CIDS) between UPD and UPV TMEM faculty. This was also a mechanism for capacity building of UP faculty involved with TMEM. Other forms of capacity building activities for TMEM faculty were the Course Teaching workshops in 2014 to early 2015 which promoted the exchange of inputs between UP faculty and MPA experts on teaching approaches and detailed contents of TMEM courses.

Marketing and Launching of the Program. Approval of the PM-TMEM tuition fees by the UP-BoR in October 2014 allowed for the official marketing of the new program and formal solicitation of student applications, albeit on a very limited time period since the program's commencement was in January 2015. On November 2014, the PM-TMEM was formally launched within the UP System by the UP President Alfredo Pascual and CU Chancellors. In January 9, 2015, there was a ceremonial handshake between the UP President and the USAID Mission Deputy Director for the Philippines, with the national agencies of the government sector and international NGOs in attendance.

Provincial government; Academe; DENR regional offices, and an NGO) constituted the first batch of PM-TMEM students. A total of 7 modules for the TMEM courses were implemented from January 2015 to April 2016. Two modules were conducted in each trimester on the First Year, with each of the UP CUs taking turns in hosting a trimestral implementation of the program. The CU host is responsible for coordination and provision of lecture venues, and assistance on course logistics. The students' last trimester held at UPD consisted of the special problem proposal presentation and later on, the final presentation of the results of their study. Through various field activities in the modules, the students were able to interact with multi-stakeholders from various MPA sites in Luzon, Visayas and Mindanao, including some sites in Sabah, such as the Turtle Islands Park. After each trimester, implementation of the courses was evaluated by the Inter-CU Management body and the respective course coordinators for teaching approaches,

logistics, and expenditures, in order to provide recommendations for improvement in future cycles.

The initial PM-TMEM batch of five students completed their program requirements and will be graduating by the end of June 2016. UP Pres. Pascual hosted a pre-commencement ceremony for the graduating students. A second batch of nine PM-TMEM students commenced the second cycle of the program in 20 January 2016.

Networking. The PM-TMEM has been serving as a mechanism to institutionalize capacity building through intersectoral partnerships in learning and knowledge management, and for transdisciplinary collaboration in the field of MPA management and governance. Through the implementation of the TMEM courses the following have been noted:

- The program provided a venue to capture the learnings from different NGOs, Local Government Units (Provincial and Municipal/ City LGU) and National Government Agencies (NGA) involved in marine conservation when their resource persons are tapped as lecturers of the program together with administrative support personnel.
- II) LGUs and students are linked with resource persons and thus enable sharing of lessons through the PM-TMEM's network of professionals.
- III) Through the program's partnership with the MPA Support Network (MSN), the LGUs and TMEM students become part of the MSN, and thus allow for continued partnerships with a broader support network.
- IV) With the upcoming establishment of the MSI Marine Biodiversity Resources Information System, the UP system's strategic longterm commitment to marine conservation and knowledge management is further consolidated.

I. Introduction

USAID/Philippines awarded a three-year cooperative grant of PhP21,428,814 (NTE \$522,654) to the Marine Environment Resources Foundation, Inc. (MERF) on October 24, 2011 to establish a Masters Program on Marine Protected Areas. MERF collaborated with the University of Klagenfurt (Austria), which has a similar graduate program largely applied in a terrestrial setting. The project aimed to establish a postgraduate program in the Philippines, that focuses on the effective management and good governance of marine protected areas (MPA). This effort highlights the Philippines' contribution and lessons learned from experiences in marine biodiversity conservation and sustainable development in tropical marine ecosystems and in the context of the Coral Triangle region.

Upon the initial completion of the curriculum development phase in December 2012, new and compelling factors led to a revised masters program structure. First, the MSc program of the University of Klagenfurt was not congruent to the university requirements of the University of the Philippines. Second, a Masters of Science program cannot accommodate the multi-disciplinary (natural, physical, social) origin of the intended target group for the program. Third, a multi-disciplinary program will require a university system-wide approach where the program could tap faculty members with the appropriate and relevant fields of discipline from different constituent units within the University of the Philippines. Lastly, the program needs additional time to make the course offering consistent with the University standards, processes and structure.

Thus in June 2013, the project was re-named "Set-up of a Professional Master's program on Tropical Marine Ecosystem Management (PM-TMEM) as a Tri-campus offering of the University of the Philippines" and a 1.5 year no-cost extension period was allowed, thus extending the life-of-project to June 24, 2016.

II. Project Objectives

The general objective is to develop and implement a postgraduate academic program on Tropical Marine Ecosystem Management at the University of the Philippines, with marine protected areas (MPAs) as an initial area of specialization. This program serves as a means towards contributing to biodiversity conservation and sustainable development in the Southeast Asia and the Coral Triangle region. It would be a collaborative offering of 3 CUs within the UP System. It is geared towards enabling middlemanagement professionals in the region to be competent in the management of tropical marine ecosystems of MPA sites and networks, within the context of an ecosystems-based approach. The program is expected to be self-sustaining after its first run.

The specific objectives are the following:

- 1. To develop the curriculum of *Professional Master's in Tropical Marine Ecosystem Management* with *Marine Protected Areas (MPA)* as the initial *area of specialization,* including a regional context in its scope for the Southeast Asia (SEA) and the Coral Triangle (CT) settings.
 - 1.1 To develop the curriculum content and teaching materials;
 - 1.2 To institutionalize the new academic program for its eventual implementation by the collaborating units within the UP System;
 - 1.3 To establish the human resources and financial sustainability mechanisms of the program.
- 2. To implement the *Professional Master's in Tropical Marine Ecosystem Management* with *Marine Protected Areas* as the initial *area of specialization,* through the collaborating constituent universities and corresponding lead institutions of the University of the Philippines
 - 2.1 To market the *Professional Master's in Tropical Marine Ecosystem Management* with *Marine Protected Areas* as the initial *area of specialization,* among local and regional institutions involved in MPA management;
 - 2.2 To carry out student selection for the academic degree program;
 - 2.3 To implement the modules of the academic degree program;
 - 2.4 To monitor the program through the conduct of evaluation and feedback mechanisms;
 - 2.5 To carry out fund-raising activities in line with achieving program sustainability.
- 3. To develop a network of MPA professionals, experts and institutions within the region as a support network for the continuous professional growth and development of the program's graduates.

III. Overall Project Approach and Guiding Principles

A. The Marine Environment and Resources Foundation (MERF) facilitates support for the program institutionalization process by UP Collaborating Units (CU) / Institutions

MERF is the support foundation of the UP Marine Sciences Institute established in October 2, 1991, providing support to its teaching, research, and extension functions. MERF is tasked to provide administrative support for this project, while UPMSI implements the activities to achieve the goals and objectives of the project. UPMSI as the initial lead institution of the Tri-Campus collaboration together with its other academic partners within the UP System, shall coordinate the project to enable the establishment of the envisioned academic program.

Decision-making on institutionalization matters is coordinated and administered by the UP MSI Executive Committee and its Faculty, including their counterparts among the collaborating lead

institutions of the UP CUs. Matters on institutionalization include all formal agreements between UP MSI and the following collaborating academic Institutions for program establishment:

- i) the UP Visayas campus through the Institute of Fisheries Policy and Development Studies (IFPDS) of the College of Fisheries and Ocean Sciences (CFOS) as its lead institution;
- ii) the UP Los Baños campus through the School of Environmental Science and Management (SESAM) as its lead institution.

The roles of UP MSI and its academic CU partners will be complementary given the academic strengths and expertise of the respective 3 CUs involved. Defining the complementary roles of MERF, UP MSI and its academic partners is necessary to clarify and define the respective scope of work within the project. This would facilitate the mainstreaming of the program towards institutional sustainability within the UP system.

B. Alignment with the "One UP Vision" for program institutionalization

The implementation mode of the program was changed to a collaborative offering by 3 UP CUs within the UP System, which is in alignment with the strategic plans and vision of the University for a "One UP". This was in view of UP strengthening its graduate programs that can contribute to a globally competitive Philippines within a sustainable development framework.

Synergies are to be achieved in the unified effort of the following UP CUs by combining their vast experiences from existing, well-established academic and training programs such as:

UP Diliman – Initially, the UP MSI will be able to contribute substantially to the program given its expertise in marine resource management (an existing course) and marine protected areas; coastal development planning and marine spatial planning (MSP); knowledge management and decision support tools with ecological and oceanographic modeling and environmental governance. Through its track record of collaborative projects and active involvement in the Coral Triangle Initiative (CTI), it will provide the international and regional MPA orientation for the program aside from sharing its access to international expertise.

All these are likewise foreseen to complement the strengths of the 2 CU partners: for UP Visayas, the expertise in ecosystem approach to fisheries management (EAFM) - an important strategy for food security in the CT region - and coastal resource management (CRM); and the academic strength of UPLB on land use and watershed management for the "Ridge to Reef" approach in ecosystem-based management (EBM). These make for a strong Master's program in TMEM, which advocates an EBM approach. Aside from EBM, MSI is also initiating an H2O (Highlands to Ocean) biodiversity approach as a catalyst for the Marine Biodiversity Resources Information System (MBRIS), to also complement EBM. All these when harnessed synergistically will be used to minimize the risks of the foreseen threats in financial and institutional vicissitudes.

The other strengths emanating from UP Visayas providing value added significance for the program; including their experience and approach in handling a Professional Master's degree – the Master's in

Marine Affairs; access to MPA networks and CRM/MPA resource persons based in the Visayas (e.g. proximity to ECOFISH sites in the Visayas; and their network with CCEF, SUAKREM, and GIZ-Visayas).

Aside from UPLB/SESAM contribution to the "Ridge to Reef" approach of the program through watershed management, and they are the Philippine pioneer in development communication. Aspects of these form key elements related to the Information, Education, and Communication (IEC), social marketing, and multi-stakeholder participation in MPA management. Its proximity to the Verde Island Passage (VIP) MPA network will also facilitate course implementation involving this MPA network.

Such synergy derived from the strengths of the 3 CUs of the UP System is envisioned to result in a holistic program appropriate for addressing capacity building for the effective management and good governance of tropical marine ecosystems within the Philippines, including the SEA and CT regions.

C. Institutionalization of mechanisms to ensure the integration of program content, its delivery, and its application

One of the important marks of postgraduate academic programs of quality is the opportunity to offer its students the experience of gaining and sharing knowledge and skills in an integrated manner, which is usually insufficient in short-term training courses. The exposure time and experience imbues a shared vision and mission for the program by its collaborating bodies. To make integration effective, it is important that there be curriculum workshops among course developers; between program developers and faculty members implementing the courses; not only within the development phase of the program, but also continuous interactive learning periodically during the implementation of the program, even beyond the project life.

This also underlines the importance of field work for every course, including post-modular student work assignments focused on applications of knowledge/skills gained from the academic learning module as relevant to their work place. The Special Problem course (3 units) in the proposed program serves as a means by which the students can apply the knowledge and skills learned for the resolution/improvement of TMEM issues appropriate in their places of origin.

D. Fostering the development of strong partnerships to uphold program standards and sustainability

The program requires collaboration, not only among the UP CUs implementing the program, but also among multi-sectoral individuals and institutions (local and international) who can contribute to the achievement of the objectives of the program, particularly with regard to academic program standards and sustainability.

i) Area of technical expertise and standards

Partnerships with regional and international TME experts and institutions will enable the integration of regional/international perspectives and applications into the academic program. Thus the various course offerings are integrated, responsive to the real and current TME management needs within Southeast Asia and the Coral Triangle region. The program shall be continuously enriched by regional exchanges of experiences, adaptive monitoring and interaction of program participants (faculty and students) and partners. This particular networking focuses on technical inputs for achieving relevance and high quality of curriculum content and scope, and implementation.

ii) Area of program sustainability

Future Human Resources. This will be addressed by the incorporation of capacity building to accelerate the development of a larger critical mass of faculty with TME expertise to run the institutionalized program long term. A second generation cadre of faculty members will be identified for future involvement in the program.

Financial. This will be addressed through partnerships with individuals and institutions from both private and public sectors who share in the vision and mission of the program. Financial sustainability mechanisms include building up of an endowment fund, co-financing schemes for various program operational aspects, sponsorship of professorial chairs for international lecturers, and the sponsorship of student scholarships.

Networking within the local and international arena on the science on TME-based management. Networking with both local and international institutions with their respective network coverage, is given premium to enable an ever-growing awareness of the program to wider sectors who can benefit as well as support the program. This also includes fostering other partnerships with non-academic institutions whose research or development programs are potential platforms for complementation with various components of the *Professional Master's program in TMEM*.

Areas of Specialization. The program was redesigned to take on a broader scope of Tropical Marine Ecosystem Management, which is still aligned with the ultimate goal of marine biodiversity conservation, but will allow for various areas of specialization. This will enable the program to be adoptive to the different challenges that arise in coastal/marine resource management, which can evolve through time. This curricular framework will enable long-term program sustainability that can attract students in a consistent manner. The scope of the program will cover Marine Protected Areas (MPAs) as the initial Area of Specialization for the Professional Master's program in Tropical Marine Ecosystem Management (TMEM). Future areas of specialization are already foreseen i.e. Integrated Coastal Management, Ecosystems Approach to Fisheries, and Climate Change Adaptation.

This strong complementation of roles among the 3 CUs will be significant for the development of future Areas of Specialization, wherein the other Partner CUs can even take the lead role for specific themes:

Integrated Coastal Management – This harnesses the academic strengths of all 3 CUs: UPLB for land use and watershed management; UPD/MSI for marine resource management and MSP; and

UPV for CRM. It will complement the existing UPV-PEMSEA partnership for the implementation of ICM training programs in the Visayas.

Ecosystem Approach to Fisheries Management - UPV is the lead institution for this program given its expertise in EAFM. This will be in complementation with EBM and resiliency thinking for climate change and biodiversity; including the H2O vis-à-vis Ridge to Reef initiative with an evolutionary ecological perspective.

Watershed Management – UPLB as the lead institution for this program specialization, in as far as it affects TMEM. Other partnerships are envisioned to be established through this thrust.

E. Fostering the continuous professional development of the graduates

MERF's commitment to capacity building within the region calls for a sustained commitment to support the continuous professional growth and development of the program's graduates through a support network for TMEM and MPA professionals. It shall consist not only of its graduates, but include all program developers and faculty; private individuals and institutions who share in the vision and mission of the program and have established partnerships with the collaborating UP CUs.

IV. Accomplishments vis-à-vis Goals

A. ACCOMPLISHMENTS ACCORDING TO THE GOALS ESTABLISHED FOR THE PROJECT

1. To establish the Professional Master's in Tropical Marine Ecosystems Management (PM-TMEM), a postgraduate academic program at the University of the Philippines, with Marine Protected Areas as the initial Area of Specialization

Preliminary Curriculum Development Phase

During the project's first year (Nov 2011- Oct 2012) the completion of curriculum framework and syllabi of the Master's in Management of MPAs program with a modular implementation design to enable simultaneous professional work among participants, was achieved through Curriculum Development Workshops held in January, March, and May 2012. These workshops were held with MSI faculty involved in coastal resource and MPA management and governance, including resource persons from the University of Connecticut and the Apen-Adria Klagenfurt University, with a wide

base of CRM/MPA experts from local and international NGOs. Participants of all these workshops formed the initial networking base of the project. The conduct of a Needs Assessment Survey was initiated during the year and lasted till the first quarter of 2013 with 151 respondents consisting of TMEM/MPA professionals from the government and NGO sectors of the Philippines (67 %) and five other Southeast Asian/Coral Triangle countries (33 %).

In the latter part of 2012, through discussions with officials of the UP System, including that of the College of Science, the Marine Science Institute was encouraged to pursue tapping into the faculty expertise of other partner Constitutent Universities for a more viable program implementation modality which would enable program sustainability with respect to faculty manpower. Hence, UP faculty from implementing units of partner CUs – the University of the Visayas, and UP Los Baños – were actively involved in the Workshops of January and March 2013 for broadening of the curriculum to a wider Tropical Marine Ecosystem context with MPAs as an area of specialization.

The Inter-CU PM-TMEM development phase. Strategic planning workshops among the 3 UP CU partners were held in January and February 2013. The January workshop covered the revision of the program scope and title; consequent changes in the curriculum framework and modifications of some courses; and agreements on timelines for the UP curriculum approval process. The scope of the February workshop consisted of agreements on logistical support and arrangement, and MPA sites, which would factor in on the proposed budget amendments. Workshop content provided the necessary inputs for the variations in the project description.

Milestone 1 - Institutionalization of the PM-TMEM Program within UP

1) UP approvals

Curriculum approval. The institutionalization process of the proposed PM-TMEM within the University of the Philippines was initiated from March to May 2013 through the evaluation and approval by 3 major review bodies within the College of Science at UP Diliman. It gained the approval of the College of Fisheries and Ocean Sciences at UP Visayas in April 2013. It was also in late April that the TMEM curricular proposal was submitted to the Standing Committees of the UPLB Graduate School (GS) for review and improvement; after which it was evaluated by the review committees of all the academic units of the GS.

A major drawback for the intended review of PM-TMEM in August 2013 by the UP System's Academic Affairs Committee, was the lack of official endorsement from the UPLB Chancellor, since this endorsement was due at a much later curriculum review phase within UPLB. The differing steps in the curriculum approval process of the 3 CUs had posed as a challenge to the harmonization of the review process with that of the UP System level. A workable arrangement with the Office of Vice President for Academic Affairs (OVPAA) had to be requested to enable inclusion of the TMEM evaluation by the AAC within the last quarter of 2013.

Through the review process within UPLB, the UPLB GS recommended the apt collaboration of the College of Forestry and Natural Resources (CFNR) in the program, given CFNR's expertise in conservation planning and watershed management, which influences coastal waters. Since then (3rd quarter 2013), the UPLB CFNR became a partner in the collaborative inter-CU program, aside from SESAM of UPLB.

In the last quarter of 2013, major milestones consisted of the endorsement of the program by curriculum committees at various levels within the CUs and by the Academic Affairs Comittee (AAC) and the Presidential Advisory Council (PAC) at a UP System-wide level. From April to May 2014, the program was endorsed by the University Councils of the 3 CUs for BOR review. The PM-TMEM curricular proposal received definitive approval from the UP Board of Regents (BoR) on 30 June 2014 (See Annex 1, Appendix 1).

Approval of tuition fees. However, the program's tuition fees, which were higher than the regular schemes of UP graduate programs, constituted another evaluation and approval process by the BOR, resulting in the adjustment of the PM-TMEM's program commencement to January 2015. The UP system process required more consultations including remedial measures to overcome the infrequent periodicity of meetings by the UP System Fiscal Policy and Operations Committee (S-FPOC). The process was expedited through a special referendum of the S-FPOC. Lapses by concerned UP System offices in coordinating tuition fee document preparations for the UP BoR meeting in September, resulted in the deferment of the PM-TMEM tuition review to the next UP BoR meeting the following month.

Final approval from the UP Board of Regents (BoR) for the prescribed tuition fees was granted on 30 October 2014 (*See Annex 1, Appendix 2*). By November 2014, the BoR was informed of the program's revised academic calendar, given the various program adjustments resulting from the delayed BoR approvals. The program's official application period was from November to December 2014; the official marketing of the program; and processing of applications and selection of students for the first cycle. Dissemination of the BoR-approved curriculum and tuition fee documents of the program to the respective Constituent University (CU) Chancellors and University Registrars also initiated the setting up of administrative procedures in relation to the program.

Inter-CU Management interventions within the period of the UP approval process.. The inter-CU Coordinating Body held work sessions to address the harmonization of the various recommendations from the curriculum committees of the 3 CUs and firm up inter-CU administrative processes involved in program implementation. These were held in the Inter-CU Workshops of January and March 2014. Another Inter-CU Workshop held in June 2014 addressed preparations and discussion of supporting documents for the PM-TMEM Tuition Review and Approval phase.

Through the course of the review process within each of the CUs, periodic updating was also done among the 3 CUs through Skype or other face-to-face meetings immediately after the participation of inter-CU Management members in an official curriculum review session by CU evaluating bodies.

2) Launching of the Inter-CU PM TMEM program.

With the formal approval of the program, the PM-TMEM was formally launched within the UP System in November 2014, with the UP President and some key UP System Officials, together with the Chancellors and the Deans and Directors of the Inter-CU implementing units (*See Annex 2 Appendix 1*). It was likewise launched within the UPLB Graduate School in December 2014. Being the first model of an Inter-CU collaborative graduate program, added significance to these launch events within the University (*See Annex 1 Appendix 2*).

Subsequently on January 9, 2015 there was a ceremonial handshake of partnership between the UP President and the USAID Deputy Mission Director, with key institutions of the government sector, NGOs in marine conservation, and private foundations supporting the program. The event also served as the launching of the program within the govrnment, private, and NGO sectors, as a contribution of the national University in support of the Coral Triangle Initiative (See Annex 1, Appendix 3).

Milestone 2 - Institutionalization arrangements among 3 CUs - SYNTHESIS

Setting up of administrative systems

Inter-CU Management Committee Workshops and meetings held prior to Program commencement. Even prior to the curriculum approval by the UP BOR, the Inter-CU Coordinating Committee had started discussions and laying down procedural frameworks for various administrative aspects of running the program. Inter-CU Workshops of the Coordinating Committee held in February 2013, and in January, March 2014 (See Annex 3 Appendix 1) focused on the following administrative aspects including program sustainability:

A. Teaching Administration

- i) Selection criteria for faculty (February 2013)
- ii) Defining roles of program implementation proponents: Host Constituent University and the Course Coordinators (Jan 2014)
- iii) Faculty affiliation process, teaching loads, and compensation (March 2014)

B. Student Recruitment and Admission

- i) Recruitment and admission policies (January 2014)
- ii) Flow of student visa processing for international students (June 2014)

C. Financial Administration

- i) Cash flow from tuition and laboratory fees, internal mobility fees (March 2014)
- ii) Fund management process (March 2014)

D. Program Sustainability

- i) Potential funding sources for associated research grants (February 2013)
- ii) Broadening faculty base: training exposure opportunities for second liners (March 2014)

By June 2014, the Management Committee workshop focused on the draft elements for a document on on Inter-CU Agreements in relations to the various aspects of program administration that had been discussed in prior workshops.

Inter-CU Management Workshops held during program implementation (2015-2016). A total of four Inter-CU Management Workshops were held, with each scheduled at the end of the trimester of program implementation. These were conducted in April and August 2015, and January and Aprill in 2016, with each of the CUs taking turns in hosting the event (See Annex 3 Appendix 2). The Marine Science Institute hosted the first and last workshops. Except for the one-day workshop held

in April 2015, these workshops usually consisted of the evaluation of courses implemented on the first day, and a management work session on the second day. The first day provided an overview of the courses implemented in the trimester; the course evaluation by both the students and Course Coordinators; and course logistics and financial expenditures. These served as an opportunity for the Inter-CU Management Committee and faculty to provide insights on Course Implementations with respect to teaching approaches, logistics and expenses incurred during the implementation of program modules within the trimester.

The Management Committee session on the second day of the workshops initiated in August 2015 onward , focused on the discussion of the flow of various administrative functions during actual program implementation. Perspectives with regard to institutionalization processes were discussed in view of the future scenario without the external support of the USAID project. This was to prepare the 3CUs for continuous operation of the program beyond the USAID project-life. The following are the overviews on the focus of the Inter-CU Management work sessions:

13 August 2015. The Workshop, which was held at the UPV Iloilo campus, focused on a detailed review of the various processes of program implementation and the range of functions and tasks involved. The distribution of functions of the current PM-TMEM Program Office to the Course Coordinators and the existing CU office responsible for the academic affairs of the implementing units were discussed. This was in view of a scenario whereby Program Officer items for the 3 CUs would not yet be available. Although its request ought to be made soon, granting of the items is foreseen to take a long duration, based on the experiences of the Inter-CU Deans.

23 January 2016. The Inter-CU Management Committee meeting, which was held at the SESAM in UP Los Baños, focused on the revisions of parts of the Inter-CU Management Agreement, These were to address the recommendations of the UP Diliman Legal Office and clarifications on the program faculty criteria raised by one of the CUs. The body agreed upon the timelines for the dissemination of the final draft document and the submission of the CUs to their respective Legal Offices for another round of review; including the approach for drafting the formal Inter-CU request to the UP President for permanent items for the PM-TMEM Program Officers.

23 April 2016. The last Inter-CU Management Workshop focused on discussions and consensus building on the CU expectations and outputs in relation to the nine (9) components comprising the Inter-CU Management Agreement draft. These areas consisted of the following:

Section 1: Sharing of Resources

Section 2: Coordination with the Office of the University Registrar

Section 3: Faculty Affiliation and Selection of Lecturers/Resource Persons

Section 4: Students' Application

Section 5: Students' Assistance

Section 6: Collection of Tuition Fees (Lecture And Laboratory) and Transfer of Laboratory Fees to

the Host CUs

Section 7: Promotion of the Program and Availment of Students' Scholarship

Section 8: Development of Future Areas of Specialization

Section 9. Inter-CU Coordination and Management

An update was provided on the recommendation from the UPLB Chancellor for a revision of the Inter-CU Management document format from that of a contract to that of Guidelines or Internal

Rules and Regulations. Other areas discussed covered the CU differences with regard to appointment of Advisers and guidance committee, particularly for UP Los Baños PM-TMEM students and graduation requirements. Addressing the needs of international students with respect to language barriers during MPA field interactions with the locals was likewise discussed, given the participation of an international student in the on-going second cycle of the program.

Inter-CU Management Guidelines. Based on Administrative Order 15-05 released by the President of the University of the Philippines on 8 January 2015, the Inter-CU Program Management Body for the Professional Master's in Tropical Marine Ecosystems Management (PM-TMEM) was formally established and given the directive to formulate additional guidelines for the Inter-CU implementing rules and regulations. Additional sections pertained to the availment of student scholarships and the selection of faculty members for the program. Working drafts of the Inter-CU Management Agreement were circulated, reviewed and revised from March to April 2015 by the respective PM-TMEM Management Committees of 3 CUs; with the final proposed agreement submitted on April 2015 to the CU Chancellors for review.

By October 2015, the UPV and UPLB Legal Offices had endorsed the documents, but the UPD Legal Office still had additional pointers in relation to the minimum number of enrollees and some details related to the nature of scholarships, for inclusion in the document. These, including additional sections of the document, were addressed by the Inter-CU Management Committee in a workshop held in January 2016, resulting in a revised draft submitted for another round of reviews by the respective CU Legal Offices. A subsequent revision on document format from that of a contract to that of Inter-CU Management Guidelines was made in April 2016. As of June 2016, only the UPV Legal Office has endorsed this final version for the signing of the Chancellors, while feedback from the others was still pending.

Inter-CU Request to UP System for Program Officer. To provide the necessary support staff for the program, an official communication from the Marine Science Institute, endorsed by the Chancellors and Deans of the implementing CUs and Units, was sent last 8 April 2016 to the UP President, requesting for permanent job items of 3 Program Officers (1 per CU). This position per CU forms part of the Inter-CU PM-TMEM Organizational Structure that was approved by the UP Board of Regents. The Vice President of Administration had sent directives to the respective CU Vice Chancellors for Administration to source these items from within the CUs. As of June 2016, the UPD and UPV CUs have each identified an potential items but processing is foreseen to take a duration of some months. The Marine Science Institute, however, will be hiring a temporary Program Officer effective July to December 2016 until such time that the item will be available. This is urgent given its role as Lead Institution for the Area of Specialization on MPAs, and the program currently on its second cycle.

Milestone 3 - Trust fund development; financial sustainability

Program financial sustainability was achieved through the development of Memorandum of Agreements with various foundations in line with their Corporate Social Responsibility mandates, including the submission to the Department of Environment and Natual Resources (DENR) of the proposed MOA between the University and the national agency with regard the scope of the required financial support for the scholarship of DENR employees qualified to avail of the PM-MEM program. Towards the last quarter of the project, other institutions were approached for

partnerships on capacity building of their staff and scholarships. Other sources of financial sustainability support for the special projects of the PM-TMEM students were attained through associated research grants to the Project Leader and other faculty proponents of the program.

Establishment of MOAs for PM-TMEM Scholarships and other negotiations

The MOA between UP with the Petron Foundation Inc. (PFI) and the San Miguel Foundation (SMF) underwent a total of three (3) more revisions from November 2014 to March 2015 prior to reaching amenable terms regarding scholarship grantees and a final acceptable document. The UP-MFI/SMF scholarship MOA for PM-TMEM covering 8 full scholarships for the program (PFI-5; SMF-3), was signed by the UP Presisdent in April 2015; by the PFI and SMF Presidents in May 2015; and notarized by June 2015. The turn-over of the initial scholarship amounts was in July 2015 (See Annex 4). The SMF will be renewing the MOA for the sponsorship of another set of 3 full scholarships for the program with the draft MOA due for submission to SMF this June 2016.

A meeting between the PM-TMEM team, headed by Dr. Aliño, with the MFI Executive Director Ms. Karen Agabin, and MFI Environmental consultant Dr. Candido Cabrido was held in January 2015. The MOA between UP and MFI for the PM-TMEM grant scholarships was approved by the MFI Board members. This was then submitted to the Office of the Vice President for Legal Affairs (OVPLA), which was endorsed by April 2015 and signed by the UP President in the same month. It was signed by the MFI President in early June 2015 and notarized by 9 June 2015. Through the MOA, the PM-TMEM program is officially recognized by the Malampaya Foundation Sustainable Development Scholarship for TMEM professionals from the Verde Island Passage provinces — Batangas, Oriental Mindoro, and Palawan.

A meeting was held on 17 December 2014 with ASec Bresilda M. Gervacio of the Human Resource Development Service (HRDS) and other HRDS officers for the presentation on the PM-TMEM program and discussion on MOA components. Although the revised MOA was submitted by MSI to ASec Gervasio on 22 December 2014, a pre-requisite of the MOA approval is the modification of HRD guidelines and requirements of DENR employees' availing of In-House scholarships. It is still pending as of June 2016.

The following are other institutions that have been met by the Program Officer for partnerships on capacity building support through scholarships:

Table 1. Summary of Institutions met for Program collaboration in capacity building and scholarships in Year 5

COMPANY	ADDRESS/MEETING	STATUS
	VENUE	
1.KEPCO Ilijan Corporation	Bgy. Ilijan, Batangas City	Their CSR budget for
		scholarships is limited to
		supporting the education of
		the children of the company

		employees.
		KEPCO, offerred the use of its lecture room facilities should PM-TMEM hold its classes in Batangas.
2.Bauan International Port Service	Bauan, Batangas	They are open to potential funding and requested for a Scholarhsip Proposal. A formal presentation of the program and the capacity building scholarship scheme is scheduled for July 2016.
3.Punta Fuego Foundation	Punta Fuego, Nasugbu, Batangas	Willing to work out a tri- partite agreement with the LGU-Nasugbu and the SM Foundation (latter in charge of Hamilo Coast)
4.LGU-Nasugbu	Nasugbu, Batangas	Willing to work out a tri- partite agreement with the Punta Fuego Foundation and the SM Foundation (latter in charge of Hamilo Coast).
5.SM Foundation Inc.	Hamilo Coast, Nasugbu, Batangas	Willing to work out a tri- partite agreement with the Punta Fuego Foundation and the LGU-Nasugbu
6. First Philippine Industrial Park, Batangas	Batangas	Open to supporting the program; They requested PMTMEM to do a formal presentation of the program and scholarship scheme scheduled July 2016.
7. Bataan Coastal Resource ManagementProgram multi-stakeholders	Balanga City, Bataan	The Program Officer was introduced to some members of the industrial sector (stakeholder); the Bataan LGU is identifying a potential student for the PM-TMEM among its concerned offices.

Associated research grants in support of PM-TMEM work of students

As part of the program sustainability plan for PM-TMEM, grant proposals on aspects directly covered by the PM-TMEM curriculum were submitted to various funding entities. Grants obtained constitute a source for associated funding particularly for PM-TMEM students their field research work in line with their academic requirement for a special project. Research results also feed into the content and updating of the program curriculum materials.

UP Center for Integrative and Development Studies (CIDS)

On 20 October 2014, Dr. Porfirio Aliño, as principal investigator, together with six (6) other coproponents, submitted a capsule proposal on "Evaluating the Socio-ecological impacts of Marine Protected Areas (MPA) in the Philippines: Beyond the MEAT (Management Effectiveness Assessment Tool). The proposal was endorsed by the external reviewers for a research grant support and officially communicated the UP CIDS Executive Director Dr. Edna E. A. Co on 5 February 2015. The grant enabled the five (5) students of the PM-TMEM program to gather baseline data on the MPA management gaps of their respective areas of responsibility including the socio-economic impact of the MPA on the coastal communities. Data gathering was done from August to September 2015 with feedbacking from February to March 2016 of the results to the respective LGUs concerned.

Department of Environment and Natural Resources (DENR)

Drs. Porfirio Aliño, Maria Lourdes San Diego-McGlone, and Dr. Aletta Yñiguez of the PM-TMEM Project, together with other MSI faculty, were involved in the preparation of the research and development program proposal on "Coastal Assessment for Restoration Enhancement: Capability Development and Resiliency of EcoSystems (CARE-CaDRES)" which was submitted to the DENR in the first quarter of 2016. Within this program is a project on Capacity Building to address the development of a core cadre of professional managers of MPAs through scholarships for the Professional Master's degree in Tropical Marine Ecosystems Management (TMEM) from the University of the Philippines. The scholarship will provide support for 6 DENR scholars; 3 LGU scholars working with MPAs in a marine key biodiversity areas (MKBAs); and 2 scholars from a State University or College which can provide technical support to a MKBA. The MOA to formalize the collaboration between DENR and UP under the proposed program, is currently under review.

Milestone 4 - Capability building of faculty among 3 UP CUs

Capacity building through collaborative research

PM-TMEM – CIDS collaborative project with other Partners. With the approval of the PM-TMEM – CIDS collaborative project, meetings between Dr. Porfirio Aliño with the UPV proponents and collaborating socio-economic and financial sustainability experts from ECOFISH and BIOFIN, took place from March to May 2015. They discussed the development and finalization of the socio-economic assessment tool. By July 2015, negotiations with various LGUs commenced in order to arrange for the assessment of socio-economic benefits in relation to MPAs, to be conducted as technical assistance to the LGUs. The PM-TMEM students facilitated the networking with the LGUs

of their respective areas. Aside from the use of the SEAT (Socio-Economic Assessment Tool), surveys using the MPA and Network Effectivenesss Assessment Tools (MEAT, NEAT) were also conducted. The various surveys and training of enumerators of the LGUs were conducted in the sites of some of the PM-TMEM students from August to October 2015.

The PM-TMEM-CIDS collaborative project with collaborating partners from MSN, ECOFISH, and BIOFIN, served as a venue for the capacity building of involved TMEM faculty form other CUs in terms of enriching their exposure to other local MPAs as socio-ecological systems (SES); capacity building of the LGUs in the use of various MPA management assessment tools (MEAT, SEAT, NEAT); as well as improving the SES perspective of the PM-TMEM students and enabling them to have a baseline on the status of MPA management and governance in their areas. This will facilitate their identification of potential areas for their special projects required by the PM-TMEM program.

Capacity building through the development of UP faculty second liners

Capacity building planning with UPV-CFOS. From June 3-4, 2016, the Program Head and Program Officer had a meeting with the UPV PM-TMEM Management Committee at the UPV College of Fisheries and Ocean Sciences. Discussions focused on the identification of additional social science faculty to form a broader faculty pool for the TMEM 202 Dynamics of Tropical Marine Socioecological Systems course. Meetings were also held with the identified UPV faculty; aside from an update meeting with the UPV faculty involved in the CIDS project supporting the TMEM program.

Assignment of Co-Coordinators for some TMEM courses. Dr. Hildie Nacorda, who formed part of the core team for the development of the TMEM 201 Tropical Marine Ecosystems (January 2016), was assigned as Co-coordinator of the second cycle of the TMEM 201 course to prepare her to take on the role as Course Coordinator by the third cycle. Dr. Nacorda was likewise assigned as part of the field faculty for the TMEM 222 course that was hosted by UPLB.

Milestone 5 - Teaching materials and documentation prepared

Concept notes for PM-TMEM sub-components.

Some consultants were contracted to prepare concept notes that would serve as a guide for the teaching of some of the TMEM sub-components of the program e.g. Financial Sustainability component.

Course Teaching Workshops prior to Program Implementation

The Course Teaching Workshop scheduled in July 2014 provided a venue for the TME Course Coordinator to initially meet the other UP faculty and some other resource persons who constitute their respective teaching teams and to plan for course implementation. The main objectives of the July PM-TMEM Course Teaching Workshop were as follows:

 To discuss the teaching plan for the delivery of the TMEM course content (details) including teaching approach and logistics involved;

- ii) To determine specific teaching materials for the courses;
- iii) To determine assignments among faculty, lecturers, and resource persons of the courses;
- iv) To evaluate the flow and integration mechanisms of content within and between courses based on the teaching plans;
- v) To identify specific opportunities for publication outputs of students and faculty;

All teaching teams addressed the first three (3) objectives on the first day, followed by a presentation of their outputs on the second day. Through the presentations in plenary sessions, the entire group provided suggestions to the presenters with regard alternative teaching approaches including supplementary references that can enhance the content. Areas of convergence between some TMEM courses were likewise identified with the surfacing of recurring themes.

These teaching plans were finalized by the course teams in a follow-up workshop held in August 2014. The workshop focused on addressing aspects of continuity and convergence of cross-cutting themes running through the PM-TMEM curriculum. Distinct scoping of recurring topics was done to enable the appropriate development of thematic components and complementarity among the courses. Time adjustments and MPA sites were adjusted given the rescheduling of the program's commencement to January 2015, instead of September 2014, and changes in the sequencing of CU hosting of the modules.

Writeshops and field trip for first trimester courses. As a follow-up to the Course Teaching Workshop, course faculty teams of TMEM 201, 202, and 210 met separately given their varied levels of teaching plan outputs from the Teaching Workshop in August 2014. Write shops and meetings were carried out supplemented by electronic mail exchanges to facilitate completion of the details for the class activity sessions for their respective courses; determine the means of student evaluation on course assimilation (including the post-module assignment); and determine personnel and logistical requirements of lecture and field classes.

The TMEM 201 *Tropical Marine Ecosystems* core team, which consisted of faculty from UPV, UPD, and UPLB, had an initial one-day workshop in November 2014 followed by half-day meetings in the following 2 months.

In a 2-day writeshop in December 2014, the TMEM 202 *Dynamics of Tropical Socio-ecological Systems* core team from UPV, had discussions with the PM-TMEM Program Head Dr. Porfirio Aliño and financial sustainability expert Ms. Anabelle Trinidad, on scoping of class coverages, supplementary case studies, and references that could further enrich course delivery. The team members worked on the respective planning of the courses integrating suggested pointers from the review panel. In line with finalizing the field class activities of TMEM 202, the UPV team also had a field exposure trip to some MPAs of Bolinao and Bani in Pangasinan for multi-stakeholder interactions and familiarization with the socio-ecological aspects of these MPAs.

The TMEM 203 Inter-Cultural Understanding in the Management of Tropical Marine Ecosystems teaching tandem from UP Diliman and the Ateneo de Manila University, worked on their Class Activity Session plans based on the Writeshop Guidelines transmitted to them in December 2014.

Workshop on Communication in TMEM

A workshop was held on 18 March 2016 at the UPLB GS among Development Communication faculty of UPLB and UPV with MPA Course Coordinators of the program. It served as a venue of exchange and learnings on the role of communication in TMEM. This resulted in the detailing of the distinct scope and sequencing of the communication sub-components of the TMEM courses including that of the 1-unit course TMEM 211 Communication in TMEM (See Annex 5).

Documentation of Courses Consolidated

The documentation of the PM-TMEM courses have been consolidated. These basically consist of the lecture presentations of the faculty and resource persons constituting the course teaching team; class discussion highlights; field activity highlights; student outputs submitted to the faculty; and photo documentation.

2. To implement the *Professional Master's in Tropical Marine Ecosystem Management* with *Marine Protected Areas* as the initial *area of specialization,* through the collaborating constituent universities and corresponding lead institutions of the University of the Philippines

Milestone 6 - Marketing of the Program

Pre-BOR approval phase: Soft marketing

Since no brochures on the program could be officially distributed until the PM-TMEM program attained full UP BoR approval, only announcements and program briefers were circulated as soft marketing for the program.

A two-page Brief on the TMEM Program and a document on Frequently Asked Questions (FAQs) were prepared in January 2014. These would be for distribution to all members and faculty of the Inter-CU TMEM program for their use as references for the soft marketing campaign

The PM-TMEM team took advantage of training courses and major conferences or meetings to announce the program; and sent letters to specific LGUs or institutions soliciting their scholarship support for students from among their respective TMEM practitioners who form part of their staff.

Post-BOR approval campaign

With the approval of the PM-TMEM program by the UP BOR, except for tuition fees, the PM-TMEM started releasing the infographics (submitted to USAID for the project infographic campaign held in May 2014) as soft marketing materials to publicize the new program of the UP Systems (*Annex 6, Appendix 1*). These were shared by MSI with the other UP Partners and faculty from the other CUs.

Brochures were also prepared and distributed on a limited basis due to pending approval of the tuition fees. These were used for soliciting scholarship support from potential donors and LGUs who may want to send their staff for the program (*Annex 6, Appendix 2*).

Uploading of the PM-TMEM Website

A website for disseminating information about the program was uploaded in early June 2016. The PM-TMEM website can be accessed through the following link: http://tmem.msi.upd.edu.ph (Annex 6 Appendix 3)

Milestone 7 - Student selection

Applicants for the program. The PM-TMEM Program Office received letters of intent for PM-TMEM application together with the corresponding curriculum vitae (CV) from 18 TMEM professionals. Of these, 14 were interviewed as part of the application process, from which 12 qualified for the program's first cycle based on work experience and plans for their studies, and not currently enrolled in other graduate programs. The PM-TMEM Admission Committee consisting of the MSI TMEM Management Committee and the inter-CU faculty interviewers, recommended these 12 applicants to the respective Deans for acceptance into the program.

The majority of the applicants who qualified for the program were informed of their status by 22 December 2014, and a late applicant by first week of January 2015 soon after her interview. In the end, seven were unable to pursue enrollment due to either i) incompatibility of work load within the duration of the time out from work to attend the modules (2 persons); ii) the need to source scholarships for 2 LGU staff to support their studies; and iii) no endorsement from DENR for 2 contractual staff to avail of PFI scholarship for their studies. For the 7th person, the UPV Infirmary recommmended deferment of enrollment until he recovers from a weak respiratory condition detected during physical examinations prior to enrollment.

PM-TMEM student enrollment. Due to the papal visit holidays, which would coincide with the first week of PM-TMEM classes, program commencement was rescheduled to 20 January 2015, from the original 12 January 2015. This also enabled the students pursuing the program to finalize their work-study arrangements with their respective institutions and allowed additional time for the processing of the special order from the DENR Secretary allowing the two eligible DENR staff to attend the PM-TMEM modular program under the PFI scholarship support. The five (5) students who pushed through with the enrollment process are given in **Table 2.**

Milestone 8 - Logistical arrangements

Given the late definitive approval of the PM-TMEM program within the UP System (30 October 2014), logistical preparations for the program's first trimester were moved to January 13 to 15, 2015, just prior to the implementation of Modules 1 and 2. With regards to the various program modules implemented within the year, the standard operations for logistical preparations consisted of the following:

- i) Upon finalization by the Faculty Coordinator of the Activity Plans for a particular PM-TMEM course, both the Technical Coordinator and Program Assistant conferred with the Faculty Coordinator on the various UP faculty lecturers and resource persons including the marine protected areas (MPA) demonstration sites determined for the course. These were done approximately a month prior to the conduct of each TMEM course.
- ii) Coordination was done with partner UP CUs for faculty who will be tapped for a particular TMEM cour.se Various resource persons/practitioners identified by the Course Coordinator were invited to handle assigned classes in line with their expertise. (See *Annex 10 Appendices 1 and 2* for roster of UP facultyand resource persons)

Networking with the concerned Local Government Units (LGUs) at the municipal, and at times provincial levels, were done to disscuss and determine the appropriate field sites in line with the objectives of the particular TMEM course and to obtain the necessary permission for the class to conduct their field work. It is also through the relevant LGU offices (e.g. Municipal

Agriculturist's Office, MAO) that arrangements are made for the participation of other multistakeholders of the MPAs of their sites including the coordinated final field schedule of the TMEM class. (See Annex 10 Appendix 3 – for site-based resource persons)

iii) Logistical arrangements for PM-TMEM faculty, staff, and student accommodations, catering, land transport and boat rentals were done in the field sites a few weeks prior to the TMEM course.

Advance trips to various UP venues and field sites were conducted by the Program Assistant 3 to 4 weeks prior to the implementation of each of the TMEM courses covered by Modules 1 to 6, which were conducted within the year. These included networking with LGUs and various stakeholders in the provinces of Luzon and the Visayas area, where the field sites were conducted, including Sabah Parks and WWF-Malaysia, where the TMEM 223 field component was held.

Table 2. The first batch of PM-TMEM students

NAME	UNDERGRADUATE AND GRADUATE DEGREES	INSTITUTIONAL AFFILIATION	WORK EXPERIENCE	CURRENT ENROLLMENT STATUS
1) ANNABELLE L. CAYABYAB UP Los Banos Informed and invited by Dr. Gil Jacinto through PEMSEA meetings	Master in Professional Studies- Major in Public Administration Cavite State University in consortium with Wesleyan College of Manila Inc. 2013-2014 Bachelor of Science in Environmental Science (BSES). 1997-2001. Cavite State University, Indang Cavite Philippines	Supervising Environmental Management Specialist (SEMS) Head ICM Division PG-ENRO Provincial Government of Cavite, since 2008	Assists the Head of PG-ENRO for environmental planning and management; preparation of environmental/coastal reports; management of the office and staff	Submitted application forms to UPLB GS; working on late enrollment PFI agreed to provide her a scholarship Student to advance tuition payment as UPLB has no student loan service for graduate students.
2) DANICA D. LOPEZ <u>UP Diliman</u> informed about PM-TMEM through Dr. Miguel Fortes of UPMSI; seagrass conservation project partner	BS Community Development, 2011, UP Diliman, Magna cum laude	Community Centered Conservation (C3) Philippines, Inc.; Senior Program Officer	Has been with C3 since 2012 implementing community-based conservation projects in Busuanga, Palawan	Submitted application forms to UPD CS; will be allowed by the OUR to register upon approval of the adjusted "late registration period" of PM-TMEM at UPD. Full scholar of UPMSI

3) RUTH S. LUCERO <u>UP Visayas</u> SPAMAST was informed about PM-TMEM and scholarship availability by SMF	PhD Higher Education , Biology, 2009, Davao del Norte State College MS Marine Biodiversity, 2000 Zamboanga State College of Marine Sciences and Technology	Southern Philippines Agri-Business and Marine and Aquatic School of Technology (SPAMAST), Malita, Davao del Sur; Associate Professor	Research extension work: Part of TWG of Municipal CRM Program of Malita; Focal Person for Dugong and Other Endangered Marine Resource Conservation programs of SPAMAST	Finished enrollment at UPV by 19 January 2015; billing statement will be sent to UP for the SMF scholalrship, once MOA is signed
4) NENETH T. ORDOÑO UP Diliman Informed about PM-TMEM through email announcement to DENR CMMD Chiefs by PM-TMEM office	Master in Public Administration, 2008, Medina College – Ozamis City BS Forestry, 1982, Western MSU – Zamboanga City	DENR-CMMD Reg IX; Chief since 2002	-Prepare action programs and implementation strategies on coastal and marine environment; -Supervise and monitor the progress of all coastal and marine environment programs and projects; Provide technical assistance to LGUs, NGOs and POs in program and project conceptualization/implementation, including sourcing of funds and other resources	Submitted application forms to UPD CS; will be allowed by the OUR to register upon approval of the adjusted "late registration period" of PM-TMEM at UPD. She will avail of the 100% student loan service of UPD, since release of PFI scholarship will be delayed
5) ARIEL R. PLIEGO UP Visayas TNA respondent; through DENR-CORVA training	BS Computer Science, 2000, AMA Computer College	DENR Region XI - Coastal and Marine Management Division of; Forest Ranger	For 12 years in DENR providing technical assistance e.g. MPA assessment, MPA Planning & MPA IEC in the different LGUs in the region	Finished enrollment at UPV by 19 January 2015; billing statement will be sent to UP for the PFI scholalrship, once MOA is signed.

Milestone 9 - Implementation and Evaluation of the Program

Summary of Course Implementation from TMEM 201 to TMEM 297 (11 courses)

The PM-TMEM Program fully implemented the seven (7) modules of the program, four of which were covered in the first two (2) trimesters from January 2015 to August 2015; Modules 5 and 6 were implemented in the third trimester (September – December 2015); and Module 7 in the terminal trimester of the program (January – April 2016). All students completed all the requirements of the program and will be graduating this June 2016. The first cycle was capped by a Pre-Commencement Celebration hosted by the UP President for the first batch of TMEM students, the Inter-CU Management Committee, the program sponsors, and the USAID. It was held in 9 June 2016 at the Quezon Hall of UP Diliman.

Implementation of Module 1

Module 1 of the PM-TMEM program, covering the period of January 20 – February 4, 2015, consisted of TMEM 201 Tropical Marine Ecosystems (3 units), and TMEM 210 Inter-CUltural Understanding in the Management of Tropical Marine Ecosystems (1 unit), held sequentially. Dr. Wilfredo Campos of the College of Arts and Sciences (CAS) of UPV, was the Course Coordinator for TMEM 201. The entire team consisted of ten (10) faculty members from the 3 CUs. Dr. Maria Mangahas of the Anthropology Department of the College of Social Science and Philosophy – UPD, was the Course Coordinator for TMEM 210. Lecture components for both courses were held at the MSI in UP Diliman; while students stayed at the UP Bolinao Marine Laboratory for the field component of TMEM 201. See Annex 7 Appendices 1 and 2 for the Courst Syllabus with Schedule and Gallery for TMEM 201 and 210, respectively.

The highlights of the module's field component consisted of the following:

- Familiarization of the TMEM students with the instruments measuring coastal/ocean water dynamics to help generate models used for CRM decision-support systems, such as a Conductivity-Temperature-Depth (CTD) sensors; an Acoustic Doppler Current Profiler (ADCP) for the measurement of current speed and direction; and an Echo Sounder.
- Hands-on exposure to coral reef, mangrove, and seagrass assessment methods; and demonstration of a range of equipment used for monitoring water quality.
- Field trip and discussiom along various points of the Bolinao coast to observe coastal features and processes relevant for CRM.
- Fish landing observations for the discussion on fisheries resource dynamics.

Implementation of Module 2

Module 2, which was conducted from February 25, 2015 to March 20, 2015, also consisted of two courses: TMEM 202 Tropical Marine Socio-ecological Systems (4 units) and TMEM 203 Marine Environmental Planning and Management (4 units). Dr. Rodelio Subade of CAS-UPV, who was the Course Coordinator for TMEM 202. Two other faculty members from UPV formed the teaching team with MSI Director, Dr. Marie Antonette Juinio-Meñez, invited as a resource person to discuss Culture-based resource management of the sea urchin, Tripneustes gratilla, and sea cucumber, Holothuria scabra.

Dr. Laura David of MSI-UPD coordinated TMEM 203 with Dr. Sheila Vergara — Knowledge Management Director of the ASEAN Centre for Biodiversity and Dr. Vera Horigue of UP MSI's CCRES project, as members of the teaching team. See *Annex 7 Appendices 3 and 4* for the Courst Activity Plan/Syllabus and Gallery for TMEM 202 and 203, respectively.

The highlights of the module's field component for TMEM 202 were the following:

- Profiling of Barangay Balingasay coastal community's socio-cultural/economic profile and fisheries activities through Key Informant Interviews.
- The focused group discussion (FGD) with the female members of SAMMAKA (Samahang Mangingisda at Magsasaka) in Barangay Pilar conducted by 3 of the students as an exercise in gender analysis. The objective of the FGD was to find out whether the status of women had improved in the last 10 years since CRM was implemented in Pilar (female perspective) and women were involved in the people's organization.
- The SMMV People's Organization (Samahang Maliliit na Mangingisda ng Victory) presentation on their PO's involvement in the Sea Cucumber Ranching Project. The PO managing the sea ranching project is a family-based PO, whereby all family members become part of the PO and help out in the sea cucumber project and contribute to the family income. The FGD, with an all-male group of 5, was facilitated by 2 PM-TMEM students

The classes in TMEM 203 consisted of the following highlights that was capped by a course synthesis on the last day of class:

- Resource and resource-use mapping This was done using IAN symbol libraries consisting of
 environmental science vector symbols and icons (Integration and Application Network).
 Another version of resource mapping was done using Google Earth, applied to the work
 sites of the students.
- Capturing coastal conditions through low altitude remote sensing (LARS) Using 2 speed boats the class launched a kite with a GoPro camera to take images of the coastal area.
 Images were processed using a freeware to stitch composite images into a single panoramic image of the coast.

- Principles of vulnerability assessments:
 Sea level rise estimations A modified beach profiling of the shore outside the BML, using an emery stick, was done to measure approximate sea level after 50 years; Use of modified VA Tools based on those published by MERF (CIVAT, TURF, IC-C-Change) applied to their respective work sites
- Principles of decision support system Students were taught to use a Priority Estimation Tool (PriEst; a type of Analytic Hierarchical Process tool) as an aid in analyzing priority issues that can be addressed in their respective areas;
- Stakeholder analyses (SA) applied to their work sites in relation to their selected CRM issue of priority (using the SA tools taught by Dr. Horigue);
- Class exercise in integrating the steps and tools learned for marine spatial planning in relation to their selected CRM issue of their work site;
- Field trip along the coast of Zambales and Lobo, Pampanga for the observation of coastal and environmental management issues.

The post-module work of the students consisted of the development of a basic management plan addressing the CRM issue in their respective areas, which they had started working on through the various classroom exercises which involved the application of various tools.

Implementation of Module 3

Module 3 of the PM-TMEM program was held from May 11 – 26, 2015. It consisted of TMEM 220 MPA Management and Governance and TMEM 211 Communication in TMEM. Lecture classes were held at the new South Reclamation Project (SRP) campus site of the UP Cebu Professional Schools and at the main campus within the city proper. The UPD Vice Chancellor for Research Dr. Fidel Nemenzo was able to visit the class on May 12, 2015 at the SRP site on the same day that USAID AOTR also observed the PM-TMEM classes. Both were able to interact with resource persons assigned to the classes that day, and who happen to be USAID Partners. Co-course Coordinators for TMEM 220 were Drs. Porfirio Aliño and Hazel Arceo; Course Coordinator for TMEM 211 was Dr. Cleofe Torres of the College of Development Communicatin – UPLB. See Annex 7 Appendices 5 and 6 for the Courst Activity Plan/Syllabus and Gallery for TMEM 220 and 211, respectively.

The highlights of TMEM 220 field visits were the following:

The whale-shark watching activity at Barangay Tan-awan, Oslob, which has become a major source of livelihood of the community's marginal fishermen who have organized themselves into an association named Tan-awan Oslob Whale Shark Fishwarden Association (TOWSFA) – The activity allowed for student observations with respect to management. Discussions were held with the Oslob LGU MAO and Tourism Officer and other multi-stakeholders, who shared the LGU's sustainability plans for coastal tourism in the area.

- The Saavedra MPA in Moalboal with 75-100% coral cover The discussion with the LGU CRM key personnel on reef site tourism highlighted tourist sustainability through long-term solidarity of coastal communities through strict implementation of reef conservation and Users' fees.
- The learnings from the MPAs of Carmen and the Camotes Islands, formerly under the USAID Environmental Governance Program These LGUs continue to be in need of technical assitance to sustain proper operationalization of their MPA Management plans.
- An additional visit to the Olango Wildlife Island Sanctuary, which was co-sponsored by UP Cebu, exposed the students to the boardwalks over the tidal waters of the mangrove sanctuary, a natural island setting for the seasonal sanctuary of migratory birds.

The TMEM students submitted work on their TMEM 220 post-module assignments consisting of an assessment of the current state of management and governance of their selected MPA in their respective work areas, to identify gaps and determine possible strategies to address the gaps.

The TMEM 211 course, which was covered in two days, focused on the students' development of a Communication Plan in relation to IEC needs of their respective MPA sites. They also had an exercise on a basic communication skill for managers.

Implementation of Module 4

Module 4 of the PM-TMEM program was conducted from June 22, 2015 to July 7, 2015. The module consists of only one (1) course, TMEM 221 Strategic Planning for MPAs. Lecture classes were held at the Conference Hall of the College of Fisheries and Ocean Sciences (CFOS) of the UP Visayas Miagao campus. Towards the end of the module, lectures were also held at the Bethel Guesthouse function room in Dumaguete City, Negros Oriental. The lecture and field class coverage are indicated in the TMEM 221 Course Schedule Activities. See Annex 7 Appendix 7 for the Course Syllabus/Schedule and Gallery for TMEM 221.

Through the various class activities students experienced a sampling of soft skills in conflict management and dialogue; had an exercise in financial budgetting for a particular component of MPA management, including exercises in evaluating MPA Management Plans.

The highlights of TMEM 221 course were the following:

- Concepcion, Iloilo The visit to the site of coral fragments gathered for regrowth by the community from the reef areas destroyed by Typhoon Yolanda.
- Orientations of both the Provincial Environmental Management Office and the Office of the Provincial Agriculturis (PEMO, OPA) of Negros Occidental, and the Environment and Natural Resources Division (ENRD) of Negros Oriental. Discussions emphasized how the organizational structure and competent staff from the provincial offices assigned to the LGUs have strongly supported the development and progress of CRM activities, including

stable monitoring and evaluation (M&E) components. Provincial and LGU coastal management effectiveness has been strengthened through the effective inter-LGU Alliances in the region.

- Interaction with multi-stakeholders of Sipalay (Negros Occidental) and Dauin (Negros Oriental) MPAs Provincial support has been cited in both areas aside from the institutionalization of various user fees within the tourist dive spots. The MPAs are comanaged by the communities who strictly enforce dive and conservation regulations and have benefitted from the high annual tourist incomes generated from the MPAs.
- Last set of lecturers in Dumaguete Students had the opportunity of having an international lecturer for their class, Dr. Robert Pomeroy from the Sea Grant Program of the University of Connecticut. They learned about sustainable coastal livelihoods and an overview of the failures of past livelihood programs in the Philippines. Dr. Rene Abesamis, affiliated with the James Cook University of Australia, demonstrated science-based decision making in MPA establishments through his lecture on fish population connectivities between various MPA sites of southern Negros. Ms. Angelique Songco, Protected Area Superintendent (PASU) of the Tubbataha Reefs Natural Park, who shared the unique effective management arrangements for the NIPAS area, through the generous support of the private sector.
- Analysis of various Management Plans of MPAs in the Philippines, among which is the Dauin MPA Management Plan. The recommendations for Dauin were eventually shared with the LGU after the course, with the MPA faculty of the program providing technical assistance to the multi-stakeholders for the updating of their MPA Management Plan (August 2015).

Students submitted post-module work assignment to review the Management Plan of their respective MPAs and to propose how to strengthen and sustain their MPA.

Implementation of Module 5

Module 5 of the PM-TMEM program was conducted in September 2015. It consisted of TMEM 222 MPA Management Plan Implementation with lecture classes held from September 7 to 14, 2015 at different venues of the UP Los Baños. Field classes were held from September 17 to 23 in various sites of the provinces of Batangas and Oriental Mindoro. Dr. Hazel Arceo was the Course Coordinator. See Annex 7 Appendix 8 for the Course Activity Plan/Syllabus and Gallery for TMEM 222.

The highlights of TMEM 222 field visits were the following:

• An orientation on the Batangas MPA Network, was provided by Ms. Loretta Sollestre, Head of Planning at the Batangas PG-ENRO, when the class visited her office in Batangas City. Discussions also focused on the collaborative efforts between the PG, the Batangas LGUs, marine conservation NGOs, the maritime police and commercial fishers on the recent closed season for fishing in Batangas, which resulted in the increase in fish catch among all multistakeholder.

- The TMEM class did a site visit of an MPA in Bauan, Batangas with one group of SCUBA divers taking underwater videos and images in the deeper section; and another group snorkelling in the shallow area, also taking underwater images. An audio-visual presentation was prepared from these video footages and underwater images and turned over to the Bauan LGU, to help build their own archive of underwater documentation of their MPA. This was to address a technical assistance they requested when the logistical coordination was done with the LGU in preparation for the field component.
- The MPA site visit to the Agsalin MPA in Gloria, Oriental Mindoro, where PM-TMEM SCUBA divers were allowed to dive and witness the variety and abundance of fish and marine life, which is a result of a strictly-enforced "no-take" area in the province; and the interaction with the coastal community of the area.

Implementation of Module 6

Module 6 of the PM-TMEM program was conducted in October and November 2015. The module consists of the TMEM 296 Seminar class and the TMEM 223 MPA Networks and Large Marine Ecosystems course. The TMEM 296 class consists of the class' participation in the 13th National Symposium in Marine Science (PAMS 13) held from October 22 to 24, 2015 at General Santos City, South Cotabato and some lectures scheduled for early November 2015, after which follows the TMEM 223 class. At the PAMS 13, students attended the presentations of the different LGUs short-listed as finalists for the MPA Support Network's Best MPA Award. All five (5) PM-TMEM students also did oral paper presentations at the Symposium, consisting of the following:

Table 3. Oral presentations of the PM-TMEM students at the 13th National Symposium in Marine Science (PAMS 13) (as an alternative activity for TMEM 296 Seminar)

PM-TMEM Student	Title of Oral Paper Presentation	PAMS Session venue, date, time
Ms. Neneth Ordoño,	Analysis of the Socio-ecological	October 22, 2015; Basil
DENR IX –	systems of the Buluan Island	Function Room; 3:30 p.m.
Zamboanga	MPA in Ipil, Zamboanga Sibugay	, ,
Dr. Ruth Lucero,	Towards an Analysis of the	October 23, 2015; Basil
SPAMAST, Davao del	Management of the Dugong	Function Room; 11:45
Sur	Conservation Project in Malita,	a.m.
	Davao del Sur	
Ms. Danica Lopez	Adaptive Post-Disaster	October 24, 2015; Basil
C3 NGO, Busuanga	Interventions in Favor of	Function Room; 10:00
	Conservation: The Case of the	a.m.
	Boats for Busuanga Project in	
	Northern Palawan	

Mr. Ariel Pliego DENR XI – Davao	Challenges and Opportunities in Pujada Bay Protected Landscape and Seascape (PBPLS)	October 24, 2015; Pandan Ballroom; 11:45 a.m.
Ms. Anabelle	Cavite's Olive Ridley Turtle	October 24, 2015; Basil
Cayabyab	(Leipidochelys olivacea):	Function Room; 4:30 p.m.
PG-Cavite	Endangered or Sentinel Species?	

Lecture classes of TMEM 296 were held in UPLB just prior to the TMEM 223 course.

The TMEM 223 Marine Protected Area Networks and Large Marine Ecosystems lecture classes were held at at the Continuing Education Center at UPLB from November 4 to 9, 2015, while the field exposure trip was held in Sabah from November 10 to 13, 2016, with students returning to Manila on November 14. Among the invited resource persons for the lectures were the DENR-Biodiversity Management Bureau Director Mundita Lim, including Executive Directors of foundations and Bay-wide Alliances of Mindanao. In order to highlight regional transboundary MPA issues, the Turtle Islands of Sabah Parks constituted a field interaction site, with students oriented on proper management of turtle nesting sites..

See *Annex 7 Appendix 9 and 10* for the Course Activity Plan/Syllabus and Gallery for the TMEM 296 and 223 classes, respectively.

Implementation of Module 7

Technical support for preliminary work of students

The collaborative research in partnership with the CIDS, MSN, and USAID partners (Ecofish) to develop the Socio-Economic Assessment Tool (SEAT) in relation to MPAs has enabled program support for the students' special projects. From August 2015 to October 2015, together with the TMEM students, training was organized and provided to the LGUs on the use of the MEAT (which is a pre-requisite for a survey on the socio-economic effects of the MPA), and the SEAT. Two of the TMEM students organized the MEAT and SEAT training on a province-wide level, involving LGU alliances or networks, since their TMEM special projects involve addressing management aspects of MPA networks.

Results from the MEAT, SEAT, and NEAT surveys will enable the TMEM students to identify the gaps in management and governance of their respective MPAs and use this information to determine the scope of their special projects.

Module 7 proper of the PM-TMEM program was implemented in January to April 2015. It consisted mainly of TMEM 297 Special Problem course, whereby students, under the guidance of an Adviser and panel members, do a public presenation at the start of the trimester (January 2016) of their proposed special projects. These projects are to address the improvement of an aspect of MPA management and governance in relation to their work in their respective areas. They presented the results of their study on April 2016 and submitted their final manuscripts by early June 2016 after integrating the recommendations of their panel members. See Annex 7 Appendix 11 for the Course Activity Plan/Syllabus and Gallery for the students' proposal and final presentations of their special projects for the TMEM 297 class.

The following is the summary of special projects of the PM-TMEM students:

Table 4. Special projects of the students as their culminating requirement of the PM-TMEM program, with Advisers from different UP CUs, including UP Mindanao.

Student	Special Project	Adviser and Panel Members
Anabelle L. Cayabyab	Assessment Of The Olive Ridley Turtle Nesting Sites In The Province Of Cavite, Philippines	Dr. Hildie Marie Nacorda UP Los Baños Panel members: Dr. Arnel Yaptinchay Marine Wildlife Watch Foundation Dr. Jo Marie Acebes Balyena.org Ms. Angelita Villoria DENR-Pawikan Conservation Project
Danica Amanda D. Lopez	Potential Threat Of Small- Scale Fisheries On Dugong (Dugong Dugon) Populations In Busuanga, Palawan	Dr. Wilfredo Lopez UP Visayas Panel members: Dr. Lemnuel Aragones UPD-Inst. of Environmental Science and Meteorology Dr. Laura David UPD-MSI
Ruth S. Lucero, Ph.D.	Integrating Communication In Marine Protected Area Management: A Case Study Of New Argao Fishsanctuary, Malita, Davao Occidental	Dr. Liah Catedrilla, UP Visayas Dr Hazel Arceo, UP Diliman Panel members: Dr. Stella Tirol UPLB –College of Development Communication Dr. Marivic Pajaro Daluhay Foundation
Neneth T. Ordoño	Comparative Analysis Of Two Mpa Networks /Alliances	Dr. Porfirio Aliño, UP Diliman

	In The Province Of Zamboanga Sibugay	Panel members: Dr. Jonathan Anticamara UPD-Inst. of Biology Dr. Vincent Hilomen UPLB-Inst. of Biological Sciences; DENR-BMB
Ariel R. Pliego	Formulating a Law Enforcement Plan for Effective Implementation of the Mabini Protected Landscape and Seascape (MPLS), Mabini, Compostela Valley Province	Dr. Cleto Nañola, UP Mindanao Panel members: Dr. Antoinette Juinio-Meñez UPD-MSI Ms. Stella Maris Salas Finance specialist

Course Implementation Evaluations

Course Implementation Evaluation Workshop was held at the end of a trimester of the PM-TMEM program. These were held in April and August 2015, January 2016, with the last one on 22 April 2016 (*See Annex 8*). The main objective of the workshops was to evaluate the implementation of the TMEM courses. Specifically, the workshop aimed:

- i. To evaluate the course curricula and teaching effectiveness of methods and approaches used for course implementation;
- ii. To evaluate teaching effectivenss of the program faculty and lecturers;
- iii. To assess student performance, needs, and areas for support;
- iv. To review extent of program logistics and costs involved in course implementation;
- v. To develop recommendations for improvement of course implementation and program cost effectiveness and efficiency for the following trimester.

These workshops served as venue for the exchange of experience among the faculty, program staff, and the Inter-CU Management Committee on the TMEM courses, and discussion on the student evaluation of the courses. Some of the important recommendations and observations from these workshops were the following:

- i. Course materials or references should be transmitted to the students for their advanced reading assignments with ample time.
- ii. The teaching approach with respect to certain concepts or tools should also aim for students to realize and appreciate the need for technical expertise from external institutions who can generate specialized information needed by the practitioners' organization.

- iii. There is a need to institutionalize a feedbacking system whereby the results of the class field interactions with MPA multistakeholders and the LGUs are transmitted back to the communities for validations purposes and as a way to assist in their documentation.
- iv. Preparations with the LGUs for the class field activities usually provide the program with an overview of areas where technical assistance in relation to MPA management is needed.

Through the class field interactions in some sites, the PM-TMEM program was able to provide assistance to some LGUs:

- i. LGU of Bauan, Batangas: The class provided its Municipal Planning and Development Office with its initial archive of underwater images and video clips taken by the Course faculty and the students, including a video production on the Bauan MPA.
- ii. Dauin LGU The results of the TMEM 222 class review and analysis of Dauin's MPA Management Plan was transmitted to the LGU in time for their revisit and updating of the Management Plan for the next 5 years.

Pre-Commencement Celebration Event for PM-TMEM Graduating Batch

UP President Alfredo E. Pascual hosted a Pre-Commencement Celebration for the PM-TMEM first batch of graduating students through a luncheon held last 9 June 2016 at the Quezon Hall, UP Diliman. Pres. Pascual welcomed the students in his opening remarks and commended the program for having forged Inter-CU synergy in the spirit of "One UP". Moreover, he gave recognition to the meaningful partnerships with USAID for the cooperative grant and with private foundations for their scholarship support. Each member of the graduating batch presented to Pres. Pascual and Vice President for Academic Affairs Dr. Gisela Concepcion, their final manuscript for their respective special projects. The Inter-CU officials from the implementing Schools and Colleges were likewise present to acknowledge the students' acoomplishments and celebrate the occasion (See Annex 9 for the Gallery).

All five PM-TMEM students will be joining the graduation ceremony of their respective UP CU: 24 June 2016 (UPV), 25 June 2016 (UPLB), and 26 June 2016 (UPD).

3. To develop a network of TMEM/MPA professionals, experts and institutions within the region

Milestone 10 - Networking and establishment of PM-TMEM Alumni Network

Networking with individuals and institutions involved in TMEM

Various aspects of the program provided several means for multi-sectoral networking towards cooperation for the improvement in management and governance of marine protected areas in the Philippines. Networking was achieved through the following program activities:

- Participation as faculty, lecturers, and resource persons of the PM-TMEM classes carried out in various campuses of the University of the Philippines (Classroom-based and field site-based lecturers)
- ii) Collaboration in the organization of the PM-TMEM field activities in the Philippines and regional sites (Coral Triangle) with the exchange of technical assistance for some LGUs
- iii) Provision of technical assistance/training to PLGUs and MLGUs in relation to the PM-TMEM program support provided for the five (5) students' establishment of baseline data on MPA management and governance in their respective provincial/municipal areas.

The collaborative work of UP CUs enabled the development of an inter-dsiciplinary pool of UP faculty, with the members having participated in the lecture and field components of the program. Some members from other local and international academic institutions have likewise been tapped for their particular expertise.

The pool of resource persons consists of a number of MPA experts who have been collaborating with the Marine Science Institute through a number of current and past marine and fisheries conservation programs funded by the USAID. A number of them are affiliated to international NGOs or agencies involved in marine conservation (RARE, Conservation International, GIZ) or major programs (ECOFISH). Others are affiliated with LGUs or Protected Areas, were invited to the University to impart the management practices of their sites, constituting the MPA case studies of the program. The program's lecturer for Coastal Enforcement invited some members of the Philippine National Police as resource persons. On the over-all, the members from the academe constituted 43 % of the lecturers, with 57% consisting of practitioners, with the latter strengthening the distinctive applied aspects of a Professional Master's program. Among the range of resource persons, 60 % of these were from the field sites of the various modules.

Through the preparation of the field courses, the program's network has widened within the government sector at the provincial and municipal levels, given their jurisdiction over various MPA demonstration sites, articularly among the local chief executives, including a Governor with jurisdiction over the MPA demonstration sites tapped for the program. This resulted in interactions with the key personnel responsible for CRM and MPAs, some of whom have been attracted to enroll in future cycles of the PM-TMEM program. The program was able to also network with some key institutions involved in the marine parks of Malaysia.

The collaborative CIDS research in partnership with MSN, ECOFISH, and BIOFIN to develop the Socio-Economic Assessment Tool (SEAT) in relation to MPAs is a means by which the PM-TMEM program is supporting the students' special projects for TMEM 297. Results from the MEAT, SEAT, and NEAT surveys will enable the TMEM students to identify the gaps in management and governance of their respective MPAs and use this information to determine the scope of their special projects. For the PM-TMEM Program, it has likewise been a means to extend technical

assistance to a large number of LGUs (associated with the students' sites) in the use of these assessment tools.

The extent of networking with professionals and multi-sectoral institutions through the implementation of the PM-TMEM program are in *Annex 9*.

Networking with institutions for the sponsorship of scholarships and other activities

Three (3) institutions from the private sector provided the scholarships of all the PM-TMEM students of the first cycle. The Petron and the San Miguel Foundations provided eight (8) full scholarships (tuition and mobility fund), of which four (4) were applied to students in the first cycle; the rest to be applied for the second cycle. The Malampaya Foundation Inc. officially included the coverage of the PM-TMEM program under its Malampaya Foundation Sustainable Development Scholarship Program is also providing full scholarships for TMEM practitioners from Batangas, Oriental Mindoro, and Palawan. One TMEM student from the first batch is a Malampaya scholar.

The program has also been able to network with UP Cebu for use of its classroom venues and their co-sponsorship of a field visit to the Olango Island Marine Sanctuary, together with some of their faculty and staff.

Beyond the project life, presentations of the PM-TMEM program to the Bauan International Port Services Inc. and the First Philippine Business Park, Inc. with scholarship proposals are scheduled for July 2016.

Networking with three (3) institutions for collaborative research and technical assistance to the student' province or LGU

The research grant from the UP Center for Integrative Development Studies, involving partners consisting of the MPA Support Network and ECOFISH and a consultant from the BioFin project, has been previously discussed.

ANNEXES

ANNEX 1

UP Board of Regents' approval of the PM-TMEM Collaborative Program

Appendix 1. Approval of the PM-TMEM curriculum 30 June 2014

Appendix 2. Approval of PM-TMEM Tuition Fees 30 October 2015

Appendix 3.UP BoR PM TMEM tuition fees approval event Gallery of Photos

Appendix 1. Approval of the PM-TMEM collaborative program during 1298th Board of Regents Meeting of the University of the Philippines, 30 June 2014 (academic calendar covered)



UNIVERSITY OF THE PHILIPPINES SYSTEM OFFICE OF THE SECRETARY OF THE UNIVERSITY AND OF THE BOARD OF REGENTS

1 July 2014

Memorandum No. LADLL-14-30

For

All Vice Presidents All Chancellors The Dean, UP Cebu All Directors, HRDO

Subject

Summary of Decisions of the Board of Regents at its 1298th Regular Meeting held on 30 June

2014

Please be informed of the attached Summary of Decisions of the Board of Regents at its 1298th Regular Meeting held on 30 June 2014, for your appropriate action. The said summary shall be uploaded in the official OSU website: osu.up.edu.ph.

The Chancellors and the Dean of UP Cebu shall please see to it that copies of the said summary are furnished to all units/person concerned.

Thank you very much for your attention.

Prof. LILIAN A. DE LAS LLAGAS Secretary of the Board of Regents

Cc: Office of the President

Quezon Hall, University of the Philippines, Diliman, Quezon City, 1101, Philippines Tel # (632) 927-6780, Telefax # (632) 920-6897, 920-6885, email: osu@up.edu.ph

1298th BOARD OF REGENTS MEETING 30 JUNE 2014, 9:00 a.m.

Executive House UP Diliman Campus, Quezon City

(As of 4 JULY 2014)

NOTE: THE CHANCELLORS WILL PLEASE SEE TO IT THAT COPIES OF THE 1298th SUMMARY OF DECISIONS ARE FURNISHED TO ALL UNITS/PERSONS CONCERNED.

I. MATTERS ARISING FROM THE PREVIOUS MINUTES

NO.	AGENDA ITEM	BOARD ACTION
1	On the Proposed 2012 Code of Student Conduct of UP Diliman	The Board APPROVED the 2012 Code of Student Conduct recommended by the UP Diliman University Council that includes the revised appeal process, as well as the required residency of one (1) semester prior to being recruited to non-fraternities and non-sororities organizations. The Board, however, retains the existing rule of one (1) year residency requirement for membership to fraternities and sororities.
2	On the Guidelines on how the Board Shall Treat Appeals (UP Faculty, Personnel and Students	NOTED
3	On the Design and Build Contract with S.C. Megaworld Construction and Development Corporation for the Design and Build of the National Institutes of Health (NIH) Building Project, UP Manila Campus	DEFERRED

II. MATTERS FOR APPROVAL OF THE BOARD

NO.	AGENDA ITEM	BOARD ACTION
GENE	RAL GOVERNANCE	
	Appointment of University Officials	
4	Appointment of Asst. Prof. NELSON G. CAINGHOG as Director, UP Padayon Office, effective 1 April 2014 until 1 April 2016, unless sooner terminated	APPROVED
5	Appointment of Prof. CHRISTOPHER S.P. ESPINA as Director, Office of Design and Planning Initiatives (ODPI), UP System, effective 1 June 2014 until 31 May 2017, unless sooner terminated	APPROVED

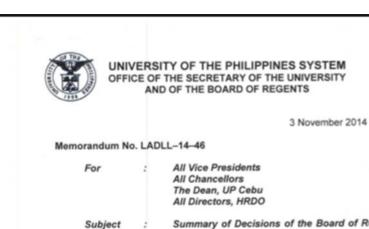
Page 1 of 32

1298th BOARD OF REGENTS MEETING 30 JUNE 2014, 9:00 a.m. Executive House UP Diliman Campus, Quezon City 20.14.1. VII

NO.	AGENDA ITEM	BOARD ACTION
6	Re-appointment of Prof. DANILO L. CONCEPCION as Dean, UP College of Law, effective 3 June 2014 until 2 June 2017	APPROVED
7	Appointment of Assoc. Prof. PATRICIA B. ARINTO as Dean of Faculty Education (Fed), UP Open University, effective 1 June 2014 until 31 May 2017	APPROVED
ACAD	EMIC MATTERS	
8	Use of "UPLB" as Part of the Corporate Name, of the College of Economics and Management Alumni Foundation Inc. (CEMAFI)	APPROVED
9	Proposal for the Institution of the Professional Masters in Tropical Marine Ecosystem Management Program, a Collaborative Program among UP Diliman (Marine Science Institute, College of Science), UP Los Baños (The Graduate School, School of Environmental Science and Management, and College of Forestry and Natural Resources), and UP Visayas (Institute of Fisheries Policy and Development Studies, College of Fisheries and Sciences)	APPROVED
10	Proposed Revisions to the UP Expanded Modernization Program (June 2014)	APPROVED
11	Proposed Revisions of Guidelines of the Creative Work and Research Grants	DEFERRED
12	Proposal to Rename the "Office of Institutional Linkages" TO "Office of International Linkages"	APPROVED
13	Proposal for the UP International Linkages Program for AY 2014-2015: UP System and CU hosted International Conferences World Experts Lecture Series Continuous Operational and Outcomes-based Partnership for Excellence in Research and Academic Training Enhancement (COOPERATE) Support for Attendance of International Conference, Meetings mediated thru MOAs with partners – Faculty, REPS, Graduate Students Support for Undergraduate Student Exchanges/Mobility – "Mobility for Vigor and Excellence (MOVE UP)"	APPROVED

Page 2 of 32

Appendix 2. Memo No. LADLL-14-46 from the OSU: Approval of PM-TMEM tuition fees



Summary of Decisions of the Board of Regents at its 1302nd Regular Meeting held on 30 October

2014

Please be informed of the attached Summary of Decisions of the Board of Regents at its 1302nd Regular Meeting held on 30 October 2014, for your appropriate action. The said summary shall be uploaded in the official OSU website: osu.up.edu.ph.

The Chancellors and the Dean of UP Cebu shall please see to it that copies of the said summary are furnished to all units/person concerned.

Thank you very much for your attention.

Prof. LILIAN A. DE LAS LLAGAS, PhD. Secretary of the Board of Regents

Cc: Office of the President

Quezon Hall, University of the Philippines, Diliman, Quezon City, 1101, Philippines Tel # (632) 927-6780, Telefax # (632) 920-6897, 920-6885, email: osu@up.edu.ph

1302nd BOARD OF REGENTS MEETING 30 OCTOBER 2014, 9:00 a.m.

Executive House, UP Diliman Campus, Quezon City

(As of 3 November 2014)

NOTE: THE CHANCELLORS WILL PLEASE SEE TO IT THAT COPIES OF THE 1302nd SUMMARY OF DECISIONS ARE FURNISHED TO ALL UNITS/PERSONS CONCERNED.

I. MATTERS ARISING FROM THE PREVIOUS MINUTES

NO.	AGENDA ITEM	BOARD ACTION
1	Approval of the Institution of Tuition and Laboratory Fees in the Professional Masters in Tropical Marine Ecosystems Management (PM-TMEM) Program	APPROVED

II. MATTERS FOR APPROVAL OF THE BOARD

NO.	AGENDA ITEM	BOARD ACTION
GENE	RAL GOVERNANCE	
App	ointment of University Officials	
2	Proposal to Institutionalize the UP Open University Gender Focal Point System (GFPS) and to Create the Office of Gender Concerns (UPOU OGC), UP Open University	
3	Appointments of the Following Faculty Members as Vice Chancellors of the University of the Philippines Los Baños, effective 1 November 2014 to Serve at the Pleasure of the Chancellor, with all entitlements due to their positions: 1. Dr. Portia G. Lapitan as Vice Chancellor for Academic Affairs 2. Prof. Rex B. Demafelis as Vice Chancellor for Research and Extension 3. Dr. Crisanto A. Dorado as Vice Chancellor for Administration 4. Dr. Marish S. Madlangbayan as Vice Chancellor for Planning and Development 5. Dr. Sertie B. Jamias as Vice Chancellor for Community Affairs	APPROVED

Page 1 of 14

Appendix 3.Gallery of Photos, UP BoR approval event



Waiting for the BoR meeting to start with PM-TMEM as the 1st in the agenda. L-R: Dean Jose Camacho (UPLB-GS); Dr. Laura David (UPD-MSI); Dean Crispino Sadauso (UPV-CFOS); Dr. Porfirio Aliño (UPD-MSI), Ms. Mira Sanchez (MSI), Dr. Bernadette de Venecia (MSI).



VP for Administration Dr. Maragtas Amante meets Dean Saclauso and Dr. Aliño prior to the UP BoR meeting.



VP for Administration Dr. Maragtas Amante joins the others prior to the UP BoR meeting.



The UP BoR meeting of 30 December 2014 begins with Chairperson Hon. Patricia Licuanan presiding.



After the approval of the PM-TMEM tuition fees. L-R: Dean Jose Maria Balmaceda (UPD-CS); VP for Academic Affairs Dr. Gisela Cocepcion; VP for Administration Dr. Maragtas Amante; Dr. L. David; Dean J. Camacho; Ms. M. Sanchez; Dr. B. de Venecia; Dr. P. Al iño.

ANNEX 2 PM-TMEM Program Launches

Appendix 1. Programme of launch within the UP System 18 November 2014, Gallery of Photos

Appendix 2. Launch within UPLB Graduate School 2 December 2014

Appendix 3. Programme of launch with USAID 9 January 2015, Gallery of Photos

Appendix 1 PM-TMEM Launch within the UP System, Gallery of photos



Master of Ceremonies:Dr. Laura David of UPMSI welcomes the guests



Guest of Honor UP President Alfredo Pascual



Turn over of the UP BoR approved PM-TMEM documents to the Chancellors



...and giver their Responses.

Chancellors Michael Tan and Fernando Sanchez, Jr. of UPD and UPLB sign the symbolic board on cooperation: Working Together . . .



The UP System Officials and Chancellors with Working Together as the centerpiece. L-R: CFOS Dean Crispino Saclauso representing UPV Chancellor Rommel Espinosa; UPLB Chancellor Fernandez; UPD Chancellor Tan; UP Pres. Pascual; VP-Academic Affairs Dr. Gisela Concepcion; VP-Administration Dr. Maragtas Amante.



Dean Jose Maria Balmaceda of UPD-CS (left) and Dean Jose Camacho, Jr. of UPLB GS (below) share their experiences on the development and approval process of the inter-CU collaboration.



The UP System officials, the Chancellors, the inter-CU PM TMEM Management Committee and guests.

Thursday, 04 December 2014 00:00

Graduate School launches 2 MS programs on its 42nd founding anniversary



(Left to right) Dr. Mary Bernadette B. De Venecia and Dr. Laura T. David of the UP Marine Science Institute (MSI); Dr. Willie P. Abasolo, Graduate School Secretary; Ambassador Antonio M. Lagdameo, Dr. Domingo E. Angeles, CA Dean, Chancellor Fernando C. Sanchez Jr.; Mr. Ricardo F. Lagdameo, AMFLOCOR Vice President; Dr. Manny Uy, AUSAID-STRIDE; Dr. J. Prospero E. de Vera, UP Vice President for Public Affairs; Dr. Marish H. Madlangbayan, Vice Chancellor for Planning and Development; Dr. Jose V. Camacho, Graduate School Dean; Dr. Serlie B. Jamias, Vice Chancellor for Community Affairs and the current director of the Office of Public Relations; and Ms. Miraflor P. Sanchez, UP-MSI

The UPLB Graduate School marked milestones with the launching of two new masters-level degree programs and the celebration of its 42^{nd} founding anniversary on December 1.

At the Thanksgiving Dinner-Fellowship held at the Graduate School multi-purpose hall, UPLB Chancellor Fernando C. Sanchez, Jr. led the launching of the Master of Science in Entomology, an off-campus program implemented in partnership with ANFLO Management and Investment Corporation (ANFLOCOR) in Panabo City, Davao del Norte. He also relaunched the Professional Masters in Tropical Marine Ecosystem Management (PM-TMEM), a joint program with the UP Marine Science Institute (MSI) of UP Diliman and UP Visayas.

Chancellor Sanchez flew to Davao City with College of Agriculture Dean Domingo Angeles on November 13, 2014 to sign the Memorandum of Understanding with ANFLO Management and Investment Corporation (ANFLOCOR) ANFLOCOR was represented by its senior vice president, Ricardo B. Florendo and vice president, Ricardo F. Lagdameo. The interdisciplinary and tripartite University offering in marine science, which was approved earlier this year by the BOR, was represented by Dr. Laura David of UPD.

Dr. Jose V. Camacho Jr., dean of the Graduate School, expressed his gratitude to the institutions and organizations that have been UPLB's partners in furthering UPLB's goal of becoming a world-class university. Present during the thanksgiving ceremony were representatives of the partner institutions, namely: Amabassador Antonio M. Lagdameo and Mr. Ricardo F. Lagdameo of ANFLOCOR; Dr. Gil Saguiguit of the Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA); Dr. Bruce Tolentino of the International Rice Research Institute; Dr. Manny Uy of the USAID-STRIDE; and representatives of the Department of Science and Technology.

Appendix 3. UP and USAID Launch of PM-TMEM, 9 January 2015 - Gallery of Photos

The PM-TMEM Launch and Ceremonial Handshake between UP and USAID at the Oblation Room of the Microtel Hotel, Ayala Techno Hub





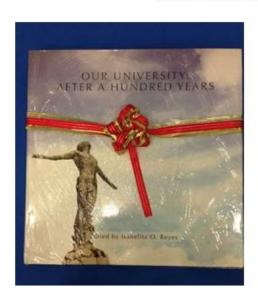
The Presidential Table with UP Pres. Alfredo Pascual and USAID Deputy Mission Director Reed Aeschliman; the 3 CU Chancellors and ASec Bresilda Gervasio of DENR



USAID Deputy Mission Director Aeschliman delivers a message on behalf of Director Gloria Steele



Handshake between Partners: USAID and UP









The exchange of gifts between UP and USAID



Let's strengthen our partnership: Cross-over handshake APEC style (Academic Programs Enrichment Cooperation)



FAMILY PICTURE: UP and USAID with government officials from DENR & BFAR, and LMP



FAMILY PICTURE: UP and USAID with friends from the NGO sector and private foundations (CI, GIZ, PEMSEA, WWF, Biofin and Ecofish, Petron Foundation Inc., San Miguel Foundation)



FAMILY PICTURE: UP and USAID with the PM-TMEM Inter-CU Management Committee and MERF

ANNEX 3 Selected Inter-CU Management Workshops

Appendix 1. Prior to PM-TMEM UP Approval February 8-9,2013

Appendix 2.Last Inter-CU Management Committee Workshop 23 April 2016

Appendix 1. Gallery of Photos, Inter-CU Workshop of February 8-9, 2013



U.P. Tri-Campus Collaboration Workshop for the Masters Program in Tropical Marine Ecosystems Management



February 8-9, 2013 at The Marine Science Institute, U.P. Diliman, Quezon City



Backrow (Left to Right): Dr. Aletta Yñiguez (MSI-UPD), Dr. Gil Jacinto (MSI-UPD), Dr. Rodelio Subade (CAS-UPV), Dr. Maria Mangahas (CSSP-UPD), Dr. Ebenizer Florano (NCPAG-UPD), Ms. Hazel Arceo (MSN), Dr. Mark Arboleda (SESAM-UPLB), Dr. Wilfredo Campos (CAS-UPV), Dr. Jonathan Anticamara (IB-UPD), Dir. Nathaniel Anasco (IMFO-CFOS-UPV), Ms. Mirafilor Sanchez (MERF), Dr. Mary Bernadette De Venecia (MERF) Front row (Left to Right): Dr. Porfiro Aliño (MSI-UPD), Dr. Maria Lourdes McGlone (MSI-UPD), Dean Carlos Baylon (CFOS-UPV): Dean Leonardo Florece (SESAM-UPLB), Vice Chancellor for Administration Nestor Yunque (OVCA-UPV)



Day 1: Plenary session on the revisions of the PM-TMEM course content during



Dean José Maria Balmaceda of the College of Science welcomes the participants.



Day 2: Work Group 1 on Course Implementation Schedules and MPA Sites



Day 2: Work Group 2 on Faculty Selection Criteria



Day 2: Work Group 3 on Financing Sustainability Schemes

Appendix 2. Gallery of Photos, Last Inter-CU Management Workshop held 23 April 2016



MERF Pres. Dr. Gil Jacinto (L) with UPLB GS Dean Camacho (R) on a discussion point .



The Inter-CU Management Committee discuss the implementation of the Management Guidelines.



UPV CFOS Dean Crispino Saclauso (center) provides insights from a CFOS experience.



The Inter-CU Management Committee meet some new PM-TMEM students during the break.

L-R: CS Dean Balamaceda, Technical Coordinator Dr. de Venecia, CFOS Dean Saclauso, TMEM student Ana Viray, IMFO Dir. Quinitio, TMEM student Rhodora Ramiento, GS Sec. Dr. Arboleda, TMEM student Zion Sunit, GS Dean Camacho , MSI DDI Dr. Gotanco, MERF Pres. Dr. Jacinto, Program Officer Ms. Mira Sanchez, IFPDS Dir. Monteclaro.

ANNEX 4

PM-TMEM Scholarships from PFI and SMF

Appendix 1. Turn over of PFI of the scholarship checks to the PM-TMEM program

Appendix 2. Turn over of SMF of the scholarship checks to the PM-TMEM program

Appendix 1. Turn-over of the PFI scholarship checks to the PM-TMEM program, July 9, 2015



Turnover of PM-TMEM scholarship check by PFI General Manager Ms. Charmaine V. Canillas (center) to PM-TMEM Program Head Dr. Porfirio Aliño (3rd from left) for Marine Protected Areas. (L-R)Others are Mr. Alan Victorino of PFI Corporate Affairs, Ms. Mira Sanchez of PM-TMEM Office, Dr. Ma. Lourdes McGlone of UP Marine Science Institute (UP MSI), MSI Director Dr. Marie Antonette Juinio-Meñez, and Dr. Bernadette de Venecia of PM-TMEM Office.

Appendix 2. Turn over of the SMF scholarship checks to the PM-TMEM program



Turnover of PM-TMEM scholarship check by SMF Executive Director Ms. Camille Buenaventura (Center) to PM-TMEM Program Head Dr. Porfirio Aliño (3rd from left) for the Area of Specialization on Marine Progected Areas. (L-R) Others are Dr. Bernadette de Venecia and Ms. Mira Sanchez of the PM-TMEM Office; Mabeth Alfanza of SMF; Dr. Ma. Lourdes McGlone of UP MSI; and MSI Director Dr. Marie Antonette Juinio-Meñez.

ANNEX 5

Workshop on *Communication in TMEM*18 March 2016 UPLB GS

Appendix 1. Workshop Activity Schedule

Appendix 2. Gallery of Photos

Appendix 1. Workshop Activity Schedule

THE PROFESSIONAL MASTERS in TROPICAL MARINE ECOSYSTEMS MANAGEMENT (PM-TMEM) Workshop on Communication in TMEM

18 March 2016, 9:00 AM – 4:00 PM; Graduate School Conference Room, UP Los Baños

Workshop Objectives

The general objective of the workshop is to review and refine the objectives and content of the communication components of the PM-TMEM program, based on the work needs of TME managers.

The specific objectives are the following:

- To present the PM-TMEM curriculum with the various TMEM courses that have communication components;
- To present the scope of development communication work that would be relevant for tropical marine ecosystem management practitioners;
- iii) To determine the range of communication approaches used in the field of TMEM and the corresponding communication skills required by TMEM managers;
- iv) To review the objectives, knowledge content, and skills-building activities of existing communication components and enhance these in TMEM courses when needed;
- v) To determine and consolidate teaching strategies recommended for UP faculty in order to help TMEM students develop and improve critical thinking, integration skills, effective communication and presentations.

Pre-Workshop Activity

- Prior review/study of the following working documents (to be sent out March 12, Sat)
 - i) PM-TMEM curriculum with communication components highlighted; Matrix of MPA course components with recurring themes
 - ii) Communication in Rural Development Sourcebook, FAO and CDC-UPLB 2014 or Development Communication overview article provided by CDC-UPLB faculty
 - iii) TMEM 211 Activity Plan (Communication in TMEM by Dr. Cleofe Torres and RARE), Worksheets, and 2 sample student outputs (first cycle)
- Checklist on communication approaches and communication skills needed by TME managers
 to be accomplished by MPA faculty of UPMSI (ref. Sourcebook) Checklist for "ticking" will be
 provided to MSI faculty and to be sent to CDC faculty prior to workshop

Workshop Schedule

Time	Activity	Presenter
8:30 a.m.	Arrival	
	Informal introductions	
8:45 – 8:50 am	Welcome remarks	Dr. Therese Velasco
		Dean, CDC-UPLB
8:50 – 9:00 am	Review of objectives and working documents	Dr. Dette de Venecia
		Technical Coordinator
9:00 – 9:30 am	The Professional Masters in TMEM:	Dr. Perry Aliño
	Context and Relationship Between Courses	Program Head (MPA)
	Focus of MPA Courses	Dr. Hazel Arceo
	(to address Obj 1)	MPA faculty
9:30 – 10:00 am	Communication in Development Work:	Dr. Cleofe Torres
	Overview	Faculty, CDC-UPLB
10.00 10.00	(to address Obj 2)	
10:00 - 12:00 nn	Workshop 1	
	Communication approaches and skills required	
	by TME managers (to address Obj 3 and 4)	Dr. Hazel Arceo
	A. Review of accomplished communication	DI. Hazer Arceo
	checklist (approaches and skills) – 5 min	Dr. Cleofe Torres
	B. Formulation of general learning objectives	5 Br. cicore rorres
	in the field of development communication	
	needed by TME managers – 25 min	Facilitator:
	C. Review of existing communication	Dr. Dette de Venecia
	components of the program (obj and	
	content, observed gaps in students and	
	recommendations:	
	i) TMEM 211 (Dr. Torres) – 30 min	
	ii) sub-components in other TMEM	
	courses – 1 hr	
	TMEM 202, 203, MPA – FGDs, KII	
	TMEM 210 – InterCultural Comm	
	, ,	
	, , ,	

12:00 – 1:00 pm	TMEM 223 – networking Prioritization on essential range of communication approaches/skills of TMEM Managers; thinking/analytical skills Lunch	
1:30 – 2:30 pm	Continuation of Workshop 1 iii) TMEM 296 (Dr. Nacorda;Dr. Tirol; Dr. Aliño) – 15 min iv) TMEM 297 (Faculty involved) – 15 min D. Determination of potential communication components among TMEM courses, where	Facilitator: Dr. Dette de Venecia
	appropriate/necessary 30 min	
2:30 – 3:30 pm	Workshop 2 – Cross-cutting communication and thinking skills development for the TMEM program (to address Obj 5) A. Best practices	Facilitator: Dr. Dette de Venecia
	 i) Effective reporting: integration, PPT and oral presentations (10 min) – Dr. Hildie Nacorda ii) Reading, research skills – graduate level iii) Critical thinking, integration, big-picture views (30 min; iii,iv) 	 Presenter: i. Dr. Hildie Nacorda (tmem 201 experience) li,iii – CDC faculty
	B. Faculty training plan (15 min)	
3:30 pm	Merienda	
3:50 pm	Closing Remarks	Dr. Liah Catedrilla CFOS-UPV
4:00 pm	Departure	

Appendix 2. Gallery of Photos (Date and event)







Boardwork on communication components



Dr. Cleofe Torres and Dean Ma. Theresa Velasco of UPLB College of Development Communication



L-R: Dr. B. de Venecia, Dr. Stephen Legarde (UPV-Tacloban College) Dr. Liah Catedrilla (UPV), Dr. Porfirio Aliño (UPD), Dr. Hazel Arceo (UPD), Dr. Stella Tirol (UPLB) Dr. Cleofe Torres (UPLB) Dr. Hildie Nacorda (UPLB)

ANNEX 6

Marketing Material

Appendix 1. Soft marketing Infographic after first BoR approval of PM TMEM (June 2014)

Appendix 2. PM-TMEM Brochure

Appendix 3. PM-TMEM Website Opening Page

Appendix 1. Soft marketing Infographic disseminated after first BOR approval of June 2014



Appendix 2. PM-TMEM Brochure (Front and Back covers)

Admission Requirements PM-TMEM admission requirements are the following: √ Bachelor's degree from a reputable institution of higher learning Professional Masters in √ Minimum of 2 years relevant work experience Tropical Marine Ecosystems Management √ Proof of English proficiency (TOEFL minimum score of 500 for foreign students) Initial Area of Specialization Marine Protected Areas University of the Philippines Program Cost for Local and International Students Diliman . Visayas . Los Baños A collaborative Graduate Program Particulars Local Student International Student Basic Tuition Fee (35 units) Php 102,500 Php 102,500 · Innovative, Relevant and Interdisciplinary US \$2,278 US \$2,278 16-month postgraduate offering Miscellaneous Fees Php,8,800 Php 8,800 US \$ 196 US\$196 Internal Mobility Expenses Php 295,000 Php 295,000 (within duration of modules) US\$6,556 US\$6,556 Foreign student's fee: P90,000 \$500 per trimester US\$2,000 Total Fees (4 trimesters) Php 406,300 Php 496,300 *Excluding travel cost to and from place of US\$9,029* US \$11,029* origin NOTE: USS at current rate CONTACT INFORMATION Interested parties may contact any of the PM-TMEM Program Coordinators: UP Diliman - Director, Marine Science Institute msiadmin@msi.upd.edu.ph; ddi@msi.upd.edu.ph UP Los Baños - Dean, Graduate School uplb.gs@gmail.com; anjoecon@yahoo.com UP Visayas - Director, Institute of Fisheries Policy and Development Studies ifpds@upv.edu.ph; hmonteclaro@yahoo.com · Professional skills · International expertise · PM TMEM Office Telefax. No. +632-4266113; 3mpa.upmsi@gmail.com Room 317 Mezzanine. The Marine Science Institute. · Theoretical principles · Science-based management · Velasquez St., UP Diliman, Quezon City 1101, Philippines Website: tmem.msi.upd.edu.ph Practical tools

Professional Master's Program on Tropical Marine Ecosystem Management Initial Area of Specialization Marine Protected Areas

Introduction

The Coral Triangle (CT) is a geographic area referring to the triangular area of the tropical marine waters of Indonesia, Malaysia, Papua New Guinea, Philippines, Solomon Islands and Timor-Leste that contain at least 500 species of reef-building corals. The region represents the global epicenter of marine biodiversity, with the Philippines located at the "center of the center" of world marine biodiversity. However, the marine resources of the Philippines and the region have been faced with the threats of unsustainable fishing practices, land-based pollution and coastal development, including the hazards and risks of climate change.

In order to accelerate marine conservation, there is a need to address the range of gaps in effective management and good governance of tropical marine ecosystems (ASEAN Center for Biodiversity, 2011) especially the dearth of skilled expertise in this field. This brings to fore the urgent need for an academic program that integrates science and experience in order to address social and ecological concerns important to biodiversity and marine conservation, linked to the sustainable development of the region.

Overview of the Program

The Professional Masters in Tropical Marine Ecosystem Management (PM-TMEM) is designed for professionals who pursuing careers in government, civil service organizations, and private sector that involve the management and governance of tropical marine ecosystems. It focuses on the application of the sciences for the development of professional skills and practical analyses of practitioners. This program will be implemented following a modular, sequential approach that can be completed in 1.5 years. A distinctive element of the PM-TMEM program is its integrative and transdisciplinary approach within and across the courses, with lectures and field components handled by various interdisciplinary teams of faculty, including local and international experts. The program culminates with the completion of an independent special project that addresses gaps in the management and governance of tropical marine ecosystems within the students' areas of responsibility.

PM-TMEM is part of the graduate offerings of the University of the Philippines (UP), with specific collaboration among 3 constituent universities (CUs) — UP Diliman, UP Los Baños, and UP Visayas. The program combines the expertise and vast experience of well-established programs in the 3 CUs: (i) UP Diliman's Marine Science Institute, (ii) UP Visayas' Institute of Fisheries Policy and Development Studies, and (iii) UP Los Baños' School of Environmental Science and Management, and the College of Forestry and Natural Resources. All students from the 3 CUs will constitute a batch and will attend all courses of the program as a single relass.

Program Format

PM-TMEM is composed of 7 modules equivalent to 35 academic units of course work consisting of lecture, field work, presentations, and applications. The duration of the program is 16 months. In the program's modular, sequential approach, each module has 2 courses taken sequentially with 2-3 weeks contact time per module. Students are given pre-module preparatory assignments and post-module take-home assignments. The final module will consist of students' presentations of their special projects. The PM-TMEM is designed so that students can continue with their respective professions while enrolled in the program.

Description of Program Courses

1st Trimester (12 units)

Module 1 - TMEM in the Coral Triangle

TMEM 201. Tropical Marine Ecosystems. Ecological foundations of tropical marine ecosystems TMEM 202. Dynamics of Tropical Marine Socio-Ecological Systems. Interactions of social, political, cultural, economic, and ecological issues in tropical marine ecosystems

Module 2 - Fundamentals of Tropical Marine Ecosystem Management

TMEM 203. Marine Environmental Planning and Management. Principles and tools of marine environmental planning and management

TMEM 210. Intercultural Understanding in the Management of Tropical Marine Ecosystems. Introduction of intercultural competence as an essential skill of effective tropical marine ecosystem management.

2nd Trimester (9 units)

Module 3 - Management and Governance of Tropical Marine Ecosystems

TMEM 220. Marine Protected Area Management and Governance. Integration of socioecological systems and designs; legal frameworks, governance and administration principles, and sustainable financing schemes

Module 4 - Strategic Planning for Tropical Marine Ecosystem Management

TMEM 221. Strategic Planning for Marine Protected Areas. Application of strategic planning principles and tools for Marine Protected Areas

TMEM 211. Communication in Tropical Marine Ecosystem Management. Concepts, principles, processes, and necessary tools of communicating knowledge, issues, and policies for stakeholders involved intropical marine ecosystem management

3rd Trimester (11 units)

Module 5 - Marine Protected Area Management Plan Implementation

TMEM 222. Implementation of the Marine Protected Area Management Plan.

Management processes, systems and standards that support the day-to-day operations of single site Marine Protected Areas

TMFM 296, Seminar

Module 6 - Marine Protected Area Systems

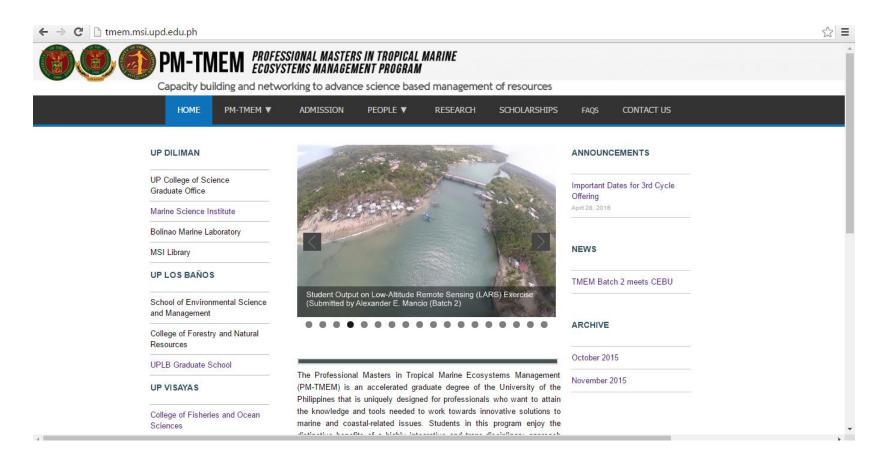
TMEM 223. Marine Protected Area Networks and Large Marine Ecosystems. Networking and alliance building within and among local, provincial, and national entities for the governance of marine protected area networks and large marine ecosystems

4th Trimester (3 units)

Module 7 – Tropical Marine Ecosystem Management Effectiveness and Good Governance
TMEM 297. Special Problem



Appendix 3. PM-TMEM Website Opening Page



ANNEX 7

Implementation of the TMEM Courses Gallery of Photos

Appendix 1. TMEM 201 Tropical Marine Ecosystems

Appendix 2. TMEM 210 Intercultural Understanding in the Management of TMEs

Appendix 3. TMEM 202 Dynamics of Tropical Marine Socio-Ecological Systems

Appendix 4. TMEM 203 Marine Environmental Planning and Management

Appendix 5. TMEM 220 MPA Management and Governance

Appendix 6. TMEM 211 Communication in TMEM

Appendix 7. TMEM 221 Strategic Planning for MPAs

Appendix 8.TMEM 222 MPA Management Plan Implementation

Appendix 9. TMEM 296 Seminar

Appendix 10. TMEM 223 MPA Networks and Large Marine Ecosystems

Appendix 11. TMEM 297 Special Problem

Appendix 1 TMEM 201 Gallery of photos



Courtesy call with Mayor Arnold Celeste of Bolinao, Pangasinan.

Orientation on Bolinao's CRM Program by Mr. Jessem Gabatin ,Bolinao LGU CRM Technical Staff member



Coral reef assessment Lecture at BML with Dr. Victor Ticzon





Observing the Picocobuan fish landing activities and laboratory work with Dr. Wilfredo Campos.



Snorkelling with Dr. Nacorda for a review on seagrasses.



Coral reef assessment field exercise



A visit to UP BML's Giant Clam Ocean Nursery.



Returning back to BML from a day out on field.



Retrieving the CTD equipment along the Guiguiwanen Channel.



Coastal water quality and monitoring - a laboratory and field demonstration with Dr. Gil Jacinto and staff.



Coastal geological features and processes - field classes Dr. Fernando Siringan.

Appendix 2. TMEM 210 Gallery



TMEM 210 class picture with Dr. Maria Mangahas and Ms. Suzzana Rodriguez (seated left to right), and Dr. Bernadette de Venecia of the PM-TMEM Program Office (standing, 2nd from left).

Appendix 3 TMEM 202 Gallery of photos



An inductive class activity with Dr. Ida Siason on socio-ecological systems.

A focused group discussion in class held at the UPMSI.

Group work on gender roles in coastal fishing communities.





FGD with the women of the SAMMAKA People's organization on gender roles in the community.



Mr. Artemio Caasi presenting the involvement of the SMMV People's Organization in sea ranching.

FGD with the men of the SMMV People's Organization on gender roles in CRM at Bgy. Victory



The TMEM 202 faculty and class at the Bgy. Victory Sea Ranching site.





Courtesy call with Mayor Gwen Palafox-Yamamoto of Bani, Pangasinan.





Interaction with the Bani MAO and miulti-stakeholders of the Bangrin Mangrove MPA.



The Bangrin Mangrove

MPA.

River cruise to the Bangrin Mangrove MPA.



The myriad fyke nets surrounding the Bangrin Mangrove MPA.

Appendix 4 TMEM 203 Gallery of photos



Identification of CRM issues along Long Beach, Bolinao, Pangasinan



The harbor exercise and indicators of CRM issues along the Guiguiwanen Channel.





Measuring potential sea level rise in 50 years.

Reviewing the concepts of resilience through the *Resilience: Survive or Thrive* card game.



Dr. Laura David demonstrates Low Altitude Remote Sensing (LARS) using a kite and attached camera.





Student reporting (left) under a lecture class of Dr. Vera Horigue (right).

Appendix 5 TMEM 220 Gallery of photos



TMEM 220 class take a break with Mr. Mar Guidote (2nd from Left), Dr. Perry Aliño, Mr. William Jatulan, & VC Dr. Fidel Nemenzo



Standard orientation on whale watching rules .



The TMEM 220 class at the UP Cebu Professional School at the SRP campus





Oslob whale shark watching site & interaction with multi-stakeholders (MAO, Tourism Officer, LA MAVE, Federation of People Organizations (boatmen and boat operators)

Appendix 6 TMEM 211 Gallery of photos



Communication & learning to do the pitch with Mr.. Jovenal Edquilag of RARE.

Appendix 7. TMEM 221 Gallery of photos



UPV welcomes the PM-TMEM class.



Prof. Alice Prieto-Carolino on socio-cultural analysis





Dr, Liah Catedrilla on IEC planning



Welcome dinner for PM TMEM hosted by UPV, with Dr. Nats Añasco and IFPDS Director Harold Monteclaro



With PEMO-Negros Occidental



Corals of opportunity at Concepcion



Interaction with Sipalay LGU & stakeholders



Welcome from the children at Suyac Is



Interaction with Dauin LGU & stakeholders





With the Sagay Marine Reserve management council

Appendix 8 TMEM 222 Gallery of photos



Classes at TREES, College of Forestry and Natural Resources, UPLB



Welcome to the Agsalin MPA, of Gloria, Oriental Mindoro



Getting ready for the waters of Bauan, Batangas



Getting ready for the dive at Bauan for video documentations

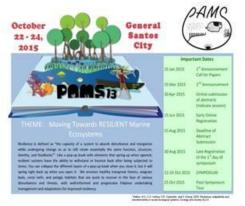


PM-TMEM with PG-CRM Division of Oriental Mindoro



Back to Calapan City for the Field Reports and TMEM 222 Synthesis

Appendix 9. TMEM 296 Seminar Gallery of photos



TMEM 296 Seminar Alternative activity 13th National Symposium in Marine Science Oct 22-24,2015 General Santos City, South Cotabato



Ana Cayabyab: Cavite's Olive Ridley Turle: Endangered or Sentinel Species?



Ruth Lucero: Towards an Analysis of

the Dugong Conservation Project in

Malita, Davao, del Sur

Neneth Ordono: Analysis of the Socio-Ecological Systems of the Buluan Island MPA in Ipil, Zamboanga Sibugay



TMEM class with faculty at PAMS



Together at the PAMS Plenary Hall

Ariel Pliego: Challenges and Opportunities in the Pujada Bay Protected Landscape and Seascape ALL PM-TMEM STUDENTS PRESENTED PAPERS AT PAMS 13 - General Santos

Appendix 10. TMEM 223 Seminar Gallery of photos



The ride from Kota Kinabalu jetty to The Tunku Abdul Raman Park (TARP)



Welcome to Sapi Island!



TARP's Sapi Island



PM-TMEM with Sabah Park Managers & Rangers



TARP signage at Sapi Island



Thank you to Sabah Park's Senior Park Manager Fazrullah Razak

Appendix 10. TMEM 297 Special Problem Gallery of photos



Dr. Ruth Lucero sharing the results of her SP on "Integrating communication in the Marine Protected Area management plan of New Argao Fish Sanctuary in New Argao, Malita, Davao Occidental"



Ms. Danica Lopez, presenting the results of her SP on "Assessing the potential threat of small scale fisheries on dugong (Dugong dugon) populations in Busuanga, Northern Palawan"



Mr. Ariel Pliego presenting his SP on "Formulating enforcement plan for effective implementation of Mabini Protected Landscape and Seascape (MPLS), Municipality of Mabini, Compostela Valley Province"



Ms. Neneth Ordoño presenting her SP entitled "Comparative analysis of two Marine Protected Area Networks/ Alliances in the province of Zamboanga Sibugay"



Ms. Anabelle Cayabyab, sharing the results of her SP on

"Assessment of the Olive Ridley turtle nesting sites in the Province of Cavite"

CAPPING CEREMONY AFTER TMEM 297 FINAL PRESENTATIONS



Messages from MSI Director Siringan



Mr. Randy Vinluan of USAID Congratulates the TMEM 297 students



UPMSI Director; friends from USAID and US Embassy Rep; TMEM Students (Batch 1 & 2); UPLB ManComm rep, PMTMEM Program Head and TMEM 297 Advisers and Panel Members





Friends from USAID and the US Embassy meet the TMEM 297 students of Batch 1 and some members of TMEM Batch 2

ANNEX 8

Course Implementation Evaluation Workshop for Final Trimester

UP MSI Conference Room 23 April 2016

Appendix 1. Programme

Appendix 2. Gallery of photos

Appendix 1 Programme

THE PROFESSIONAL MASTERS in TROPICAL MARINE ECOSYSTEMS MANAGEMENT (PM-TMEM) PM TMEM Course Implementation Evaluation Workshop

22 April 2016, Friday; 3/F Conference Room, Marine Science Institute, UP Diliman

Workshop Objectives

The purpose of the Workshop is for the PM-TMEM program to evaluate the implementation of the TMEM courses conducted in the current trimester of Cycle 1 and Cycle 2. The specific objectives consist of the following:

- 1. To assess student performance, needs, and course aspects for improvement;
- 2. To evaluate the course curricula and teaching effectiveness of methods and approaches used for course implementation and logistics (from both student and faculty perspectives);
- 3. To review the extent of program logistics and costs involved in the implementation of the courses;
- 4. To develop recommendations to improve course implementation and program cost effectiveness and efficiency for the following trimester; and,
- 5. To review the implementation costs and logistics of the second cycle's initial trimester.

Workshop Schedule

Time	Activity	Presenter
9:00 a.m.	ArrivalRegistration	
9:30 – 9:35 am	Opening Remarks	Dr. Porfirio Alino PM-TMEM MPA
9:35 – 10:00: am	Overview of Third Trimester Course Implementations: Cycle 1 and 2	Dr. Dette de Venecia
10:00 – 10:10 am	Workshop objectives	Dr. Dette de Venecia
10:10 – 11:30 am	 Evaluation of TMEM 297 Evaluations Overview of the course Review of the TMEM 297 Guidelines (covers review panel) Evaluation highlights: Panel feedback on Proposals Panel feedback on Final Presentations Student feedback (post-presentation) Final papers and grade Open Forum 	Dr. Perry Alino Course Coordinator

11:30 am – 12:20 am	Discussion of other experiences UPV MA 298 Special Problem UPLB appointment of Guidance Committee Overview of TMEM 201, 202, 203 Course content Student performance and observations Recommendations Overview of TMEM 210 Preliminary Examinations	Prof. Cindy Jimenez Dr. Mark Arboleda Dr. Dette de Venecia
12:30 noon – 1:30 pm	Lunch	
1:30 pm – 2:00 pm	Update on the TMEM Communication Workshop Objectives and Results	Dr. Dette de Venecia
2:00 – 2:30 pm	 Review of Program Logistics and Resources for TMEM 297 (Batch 1) Recommendations Open Forum 	Ms. Mira Sanchez
2:30 pm – 3:45 pm	 Review of Program Logistics and Resources for Cycle 2, First Trimester courses (no external funding for TMEM 201 to 210) Addressing challenges identified Recommendations Open Forum 	Ms. Mira Sanchez
3:45 pm - 4:00 pm	Merienda	
4:00 pm - 4:30 pm	 Preliminary preparations for the Program's Next Trimester - TMEM 220 in Cebu Addressing challenges identified Open Forum 	Ms. Mira Sanchez
4:30 pm – 4:45 pm	Closing remarks Photo Opportunity	Prof. Cindy Jimenez
4:45 pm	End	

Appendix 2 Gallery of Photos



UPLB Chancellor Fernando Sanchez, Jr. joins the Inter-CU Management Committee members and PM-TMEM faculty and staff for the opening of the PM-TMEM Course Evaluation Workshop, 6 Jjan 2016

Seated (L-R): SESAM Dean Decibel Eslava, IMFO Dir. Gerald Quinitio, UPLB GS Dean Jose Camacho, Jr., Chancellor Fernando Sanchez Jr., Program Head Dr. Porfirio Aliño, CFNR Dean Willie Abasolo, IFPDS Dir. Harold Monteclaro. Standing (L-R): Ms. Mariza Alumaga, Ms. Elize Ting, Dr. Hildie Nacorda, Dr. Bernadette De Venecia, Dr. Hazel Arceo, UPLB GS Sec. Dr. Mark Arboleda, MSI DDI Dr. Rachel Gotanco, Dr. Cleofe Torres, Dr. Stella Tirol, Ms. Mira Sanchez, Ms. Yvette Geroleo.

ANNEX 9

Pre-Commencement Celebration Hosted by the UP President for the PM-TMEM First Batch of Students



Special guests from PFI, SMF, and the USAID AOTR



Neneth Ordoño and Danica Lopez of UPD

PM-TMEM Students given an overview of their special projects and experiience



Ruth Lucero and Ariel Pliego of UPV, Anabelle Cayabyab, of UPLB



PM-TMEM Graduating students with UP Pres. A. Pascual, VP Academic Affairs Dr. G. Concepcion, USAID AOTR Ms. R. Guieb, and PFI and SMF sponsors



PM-TMEM Graduating students with UP Pres. Pascual, VP Dr. Concepcion, USAID AOTR Ms. R. Guieb, PFI and SMF sponsors, the Inter-CU Management Committee, UP faculty representatives and Program staff.



Congratulations to our PM-TMEM Graduating Batch!

ANNEX 10

PM-TMEM Network of Professionals through the Program Implementation Phase

Appendix 1. UP Faculty

Appendix 2. Resource Persons

Appendix 3. Site-based Resource Persons

Appendix 1. UP Faculty

COURSE COORDINATORS

PORFIRIO ALEXANDER M. ALIÑO, Ph.D.

Professor

Marine Science Institute, College Of Science, University of the Philippines, Diliman Education: Ph.D. in Marine Chemical Ecology; 1989, James Cook University, Australia

Expertise: Coral Reef Ecology; Community Ecology; Management and Governance of Marine Protected

Areas

E-Mail: alinoperry018@gmail.com

HAZEL O. ARCEO, D.Sc.

Assistant Professor

Marine Science Institute, College of Science, University of the Philippines, Diliman

Education: Docteur en Sciences de l'Univers, 2012, University of Nice-Sophia Antipolis, France

Expertise: Fisheries Assessment and Management; Coral Reef Ecology and Management; Management

of MPAs

E-Mail: hoarceo@gmail.com

WILFREDO L. CAMPOS, Ph.D.

Professor

Division of Biological Sciences, College of Arts and Sciences, University of the Philippines Visayas, Miagao, Iloilo

Education: Dr. Rer. Nat. (Marine) Biology, 1996, University of Hamburg, Hamburg, Germany Expertise: Coastal Ecology & Ecosystem Studies; Coral Reef Ecology; Fisheries Biology and

Management;

E-Mail: oceanbio2002@gmail.com

LAURA T. DAVID, Ph.D.

Associate Professor

Marine Science Institute, College of Science, University of the Philippines, Diliman Education: Ph.D. Physical Oceanography 1998, University of South Carolina, USA

Expertise: GIS and Remote Sensing; Climate Change Adaptation; Coastal Oceanography

E-Mail: ltd_pawikan@yahoo.com

MARIA F. MANGAHAS, Ph.D.

Associate Professor

Department of Anthropology, College of Social Science and Philosophy University of the Philippines,

Diliman

Education: Ph.D. in Social Anthropology, 2001, University of Cambridge (Christ's), United Kingdom

Expertise: Ecological Anthropology; Economic Anthropology

E-Mail: maria.mangahas@up.edu.ph

HILDIE MARIE E. NACORDA, Ph.D.

Assistant Professor

School of Environmental Science and Management (SESAM), University of the Philippines, Los Baños Education: Ph.D. Wageningen University and UNESCO-IHE Institute for Water Education, The

Netherlands

Expertise: Seagrass Dynamics; Benthic Ecology; Integrated Coastal Resource Management

E-Mail: henacorda@up.edu.ph; <a href="mailto:hildienacorda@yahoo.com

RODELIO F. SUBADE, Ph.D.

Professor

Division of Social Sciences, College of Arts and Sciences, University of the Philippines, Visayas,

Miagao, Iloilo

Education: Ph.D. Environmental Science (Environmental Economics), 2004, University of the Philippines,

Los Baños

Expertise: Natural Resource Economics

E-Mail: rodanasu@gmail.com; redabus@yahoo.com

CLEOFE S. TORRES, Ph.D.

Professor

College of Development Communication, University of the Philippines, Los Baños

Education: Ph.D. Extension Education. Minor in Social Forestry and in Development Communication,

1988, University of the Philippines, Los Baños

Expertise: Development Communication; Environmental Communication; Communication Research

E-Mail: cstorres@devcomm.com; cleofe.torres@vahoo.com

FACULTY AND LECTURERS

UP Los Baños

NATHANIEL C. BANTAYAN, Ph.D.

Professor, Director

Makiling Center for Mountain Ecosystems College of Forestry and Natural Resources

University of the Philippines, Los Baños

Education: Ph.D. Engineering (Participatory Decision Support Systems), 1996 University of Melbourne,

Australia

Expertise: GIS for Natural Resource Management; Decision Support Systems

E-Mail: ncbantayan@up.edu.ph ; ncbantayan@gmail.com

MA. VICTORIA O. ESPALDON, Ph.D.

Professor

The School of Environmental Science and Management (SESAM), University of the Philippines, Los

Education: Ph.D. Geography (Rural Resource Assessment and Environmental Analysis), 1995, University of Guelph, Canada

Expertise: Environmental Planning; Land Use and Watershed Management

E-Mail: mvoespaldon@uplb.edu.ph; voespaldon@yahoo.com

EDWINO S. FERNANDO, Ph.D.

Professor

Department of Forest Biological Sciences, College of Forestry and Natural Resources, University of the Philippines, Los Baños

Education: Ph.D. Botany, 1994 University of New South Wales, Australia

Expertise: Biodiversity & Protected Areas; Biodiversity Conservation Policy & Planning

E-Mail: edwino.fernando@gmail.com

HILDIE MARIE E. NACORDA, Ph.D.

Assistant Professor

School of Environmental Science and Management (SESAM), University of the Philippines, Los Baños

Education: Ph.D. Wageningen University and UNESCO-IHE Institute for Water Education, The

Netherlands

Expertise: Seagrass Dynamics; Benthic Ecology; Integrated Coastal Resource Management

E-Mail: hildienacorda@yahoo.com, helds143@gmail.com

VICTOR S. TICZON, Ph.D.

Assistant Professor

Institute of Biological Sciences, College of Arts And Sciences, University of the Philippines, Los Baños

Education: Ph.D. Marine Science, 2015 University of the Philippines, Diliman

Expertise: Coral Reef Ecology; Remote Sensing for Broad Scale Coral Reef Assessment

E-Mail: ticzonvs@yahoo.com; ticzonvs@gmail.com

MA. STELLA C. TIROL, Ph.D.

Assistant Professor

Department of Development Broadcasting and Telecommunication (DDBT), College of Development Communication, University of the Philippines, Los Baños

Education: Ph.D. in Development Communication, 2014 University of the Philippines, Los Baños Expertise: Participatory Communication; Broadcasting for Development; Educational Communication; Agricultural Communication Systems; Communication Research, Rural Communication Services

Mail: msctirol@devcom.edu.ph; teyscdc@gmail.com

SHEILA G. VERGARA, Ph.D.

Director

Biodiversity Information Management, ASEAN Centre for Biodiversity, Los Baños

Education: Ph.D. in Environmental Science Cognate in Development Communication, 2006 University of the Philippines, Los Baños

Expertise: Coastal Resources Surveys and Assessment; Coastal Resources Management; Coastal

Management Training; Database Management

E-Mail: sheila vergara@yahoo.com

UP Visayas

NATHANIEL C. AÑASCO, Ph.D.

Associate Professor

Institute of Marine Fisheries and Oceanology, College of Fisheries and Ocean Sciences University of the Philippines Visayas, Miagao

Education: Ph.D. Fisheries Science, 2010 Kagoshima University, Japan

Expertise: Marine Pollution & Ecotoxicology; Marine Fisheries Biology; Fish Population Responses to

Changing Marine Environment; Ocean Acidification

E-Mail: ncanasco@yahoo.com

CARLOS C. BAYLON, Ph.D.

Professor

Institute of Aquaculture, College of Fisheries and Ocean Sciences, University of the Philippines Visayas, Miagao

Education: Ph.D. in Biology and Living Resources, University Of Miami, Florida Expertise: Soil and Water Quality of Aquaculture; Coastal Resource Management

E-Mail: ccbaylon20@yahoo.com

ALICE PRIETO-CAROLINO

Associate Professor

Division of Social Sciences, College of Arts and Sciences, University of the Philippines Visayas, Miagao,

Iloilo

Education: Master of Community Development, University of the Philippines, Diliman,

Expertise: Disaster Risk Reduction and Management; Gender Studies; Sustainable Livelihood

E-Mail: aliceprieto@yahoo.com

LIAH C. CATEDRILLA, Ph.D.

Associate Professor

Institute of Aquaculture, College of Fisheries and Ocean Sciences, University of the Philippines Visayas,

Miagao

Education: Ph.D. In Extension Education Minor in Environmental Science, 2002 University of the

Philippines, Los Baños

Expertise: Development Communication; IEC in Coastal Resource Management

E-Mail: liahcate@yahoo.com

GAY DEFIESTA, Ph.D.

Associate Professor

Division of Social Sciences, College of Arts and Sciences, University of the Philippines Visayas, Miagao,

Education: Ph.D. in Agricultural Economics (Major in Natural Resource Economics; Minor in

Environmental Science), University of the Philippines, Los Baños

Expertise: Social Vulnerability and Livelihood of Coastal Communities; Climate Change Adaptation

E-Mail:gddefiesta1@up.edu.ph

PEPITO R. FERNANDEZ, JR.

Associate Professor

Division of Social Sciences, College of Arts and Sciences, University of the Philippines Visayas, Miagao, Iloilo

Education: MA Geography (Development), 1997 McGill University, Montreal, Canada

Expertise: Environmental Management and Governance; Philippine Politics and Government

E-Mail: prfernandez@upv.edu.ph; prfernandez@up.edu.ph

MARY BARBY BADAYOS-JOVER, Ph.D.

Assistant Professor, Director

Gender and Development Program, University of the Philippines, Visayas

Education: Ph.D. in Rural Sociology and Women's Studies, 2012 Pennsylvania State University at

University Park, USA

Expertise: Women and gender studies E-Mail: barbybadayosjover@gmail.com

IDA SIASON, Ph.D.

Retired Professor

Division of Social Sciences, College of Arts and Sciences University of the Philippines Visayas, Miagao,

loilo

Education: Ph.D. in (Social) Psychology, 1992 Pennsylvania State University at University Park, USA

Expertise: Women and gender studies in CRM

E-Mail: ida.siason@gmail.com

NESTOR T. YUNQUE

Assistant Professor

Division of Biological Sciences, College of Arts and Sciences, University of the Philippines Visayas, Miagao, Iloilo

Education: Master of Aquaculture, 1989 University of the Philippines Visayas

Expertise: Algal and Seagrass Biology and Assessments; Climate Change Adaptation and Resiliency

E-Mail: ngyunque@upv.edu.ph; nesyun@yahoo.com

UP Diliman

JONATHAN C. ANTICAMARA, Ph.D.

Assistant Professor

Institute of Biology, College of Science, University of the Philippines, Diliman

Education: Ph.D. Resource Management and Environmental Studies, University of British Columbia, Canada

Expertise: Biodiversity Conservation; Coastal Disturbance and Management; Marine Protected Areas

E-Mail: jonathan.anticamara@gmail.com

JAY L. BATONGBACAL, J.S.D.

Director

Institute for Maritime Affairs and Law of the Sea, University of the Philippines, Diliman Education: Doctor in the Science of Law (J.S.D.), 2010 Dalhousie University, Canada

Expertise: Marine Policy and Legal Frameworks for Philippine Fisheries and Resource Management

E-Mail: jay.batongbacal@gmail.com

GIL S. JACINTO, Ph.D.

Professor

Marine Science Institute, College of Science, University of the Philippines, Diliman

Education: Ph.D. Marine Chemistry, 1988 University of Liverpool, England

Expertise: Nutrient and Trace Element Chemistry in Tropical Marine Environments; Marine Pollution

Chemistry: Submarine Groundwater Discharge: Hypoxia

E-Mail: gilj@upmsi.ph; gjacinto@gmail.com

MARIA LOURDES SAN DIEGO-MCGLONE, Ph.D.

Professor

Marine Science Institute, College of Science, University of the Philippines, Diliman

Education: Ph.D. in Chemical Oceanography, 1991, Old Dominion University, Virginia, U.S.A. Expertise: Nutrient biogeochemistry in coastal systems; estuarine chemistry; marine pollution

E-Mail: mmcglone@msi.upd.edu.ph; malou.mcglone@gmail.com

MARIE ANTONETTE JUINIO-MEÑEZ, Ph.D.

Professor

Marine Science Institute, College of Science, University of the Philippines, Diliman

Education: Ph.D. Biological Sciences, 1991 University of Rhode Island, USA

Expertise: Culture and Fisheries Management of Invertebrates: Stock Restoration; Community-Based

Coastal Resources Management; Environmental Governance

E-Mail: ajmenez@msi.upd.edu.ph; annettemenez@gmail.com

RENE N. ROLLON, Ph.D.

Professor

Institute of Environmental Science and Meteorology, College of Science, University of the Philippines Education: Ph.D. Agricultural and Environmental Sciences, 1998 Wageningen Agricultural University & The International Institute for Infrastructural, Hydraulic and Environmental Engineering (WAU-IHE), Netherlands

Expertise: Aquatic Ecosystems; Marine Biology & Ecology; Mangrove and Seagrass Ecology;

Environmental Sciences

E-Mail: renerollon@up.edu.ph; renerollon@up.edu.ph; renerollon@up.edu.ph; renerollon@yahoo.com

FERNANDO P. SIRINGAN, Ph.D.

Professor and Director

Marine Science Institute, College of Science, University of the Philippines, Diliman

Education: Ph.D. Geology, 1993 Rice University, USA Expertise: Marine/Coastal Geology, Sedimentology

E-Mail: ando.msi@gmail.com

CESAR T. VILLANOY, Ph.D.

Professor

Marine Science Institute, College of Science, University of the Philippines, Diliman

Education: Ph.D. Physical Oceanography, 1999 University of Sydney

Expertise: Oceanographic Processes, Coastal Upwelling, Biophysical Coastal Modelling

E-Mail: cesarv@msi.upd.edu.ph; c.villanov@gmail.com

ALETTA T. YÑIGUEZ. Ph.D.

Assistant Professor

Marine Science Institute, College of Science, University of the Philippines, Diliman Education: Ph.D. Marine Biology and Fisheries, 2007 University of Miami, USA

Expertise: Population and Ecosystem Dynamics; Ecological Modelling with Applications to Management

and Conservation

E-Mail: atyniguez@msi.upd.edu.ph; atyniguez@gmail.com

UP Mindanao

CLETO L. NAÑOLA JR., Ph.D.

Assistant Professor

Institute of Biological Sciences and Environment, College of Science and Mathematics University of the Philippines Mindanao, Davao City

Education: Ph.D. Marine Science University of the Philippines, Diliman

Expertise: Reef Resiliency; Reef Fish Biodiversity; Reef Fisheries; Coastal Resource Management;

Impact of Perturbations on Reefs E-mail: tingnanola@yahoo.com

Appendix 2. Resource Persons

RENE A. ABESAMIS, Ph.D.

Silliman University Institute of Environmental and Marine Science; James Cook University, Townsville, Queensland, Australia

Fishery and Trophic Effects of Marine Reserves; Reef Fish Larval Dispersal and Connectivity rene.abesamis@gmail.com

JO MARIE V. ACEBES, Ph.D.

Balyena.Org

Marine Mammal Research and Conservation; Marine Environmental History; Large Marine Vertebrates jomacebes@yahoo.com

ALDWIN T. ALMO

Ocean Color and Coastal Oceanography Laboratory, The Marine Science Institute, University of the Philippines, Diliman Remote sensing; GIS; Decision Support Systems aldwin.almo@gmail.com

RIZALLIER C. AMOLO

RARE-Philippines

Coastal Resource Management; Marine Governance

ramolo@rare.org; amolojun@gmail.com

LEMNUEL ARAGONES, Ph.D., Director

Institute of Environmental Science and Meteorology, University of the Philippines, Diliman Marine Biology, Environmental Science lemdva2001@yahoo.com

ENGR. GERARDO V. ARANETA, MPDO Coordinator Municipal Planning and Development Office (MPDO), Jagna, Bohol Institutional development-MPA networks (Bohol) aranetagerry@gmail.com

NYGIEL B. ARMADA

Ecosystem Improved for Sustainable Fisheries (ECOFISH) Project Ecosystem Approach to Fisheries Management; Fish Stock Assessments and Fish Population Dynamics nbarmada@gmail.com

ROCHELLE G. BAKINGKITO Philippine National Police (PNP) Maritime Law Enforcement dbakingkito@yahoo.com

FEL CESAR CADIZ

RARE- Philippines

Development work on Natural Resources Management; Social marketing

fcadiz@rare.org

ASUNCION DE GUZMAN, Ph.D.

Gaia Resource and Environmental (GReEn) Consultancy Services Coastal Resource Management; Capture Fisheries; Management of Marine Protected Areas sonydeguzman@gmail.com

MARGARITA T. DELA CRUZ

Division of Natural Science and Mathematics, University of the Philippines, Visayas – Tacloban College Guiuan Development Foundation Inc, Eastern Samar, Executive Director Coastal Resource Management; Coastal Sustainable Livelihood; Invertebrate Stock Assessment; Mariculture cruzmarge2003@yahoo.com

TALNA LORENA P. DELA CRUZ

Marine Science Institute, University of the Philippines, Diliman Science Communication talnadelacruz@gmail.com

JOVENAL G. EDQUILAG

RARE- Philippines

Local governance; Inter-LGU Partnerships; Social marketing for behavioral change jedguilag@rare.org

KRISTINE A. GALARRITA, Program Manager

Macajalar Bay Development Alliance (MBDA), Cagayan de Oro City Institutional development - MBDA; Marine resource assessments krisgals07@yahoo.com

MARLITO N. GUIDOTE

Ecosystems Improved for Sustainable Fisheries (ECOFISH) Project Coastal Law Enforcement; Local Governance mar.guidote@gmail.com

VINCENT V. HILOMEN, Ph.D.

Institute of Biological Sciences, University of the Philippines, Los Baños Executive Director, Priority Programs – Coastal and Marine Biodiversity Management Bureau, Department of Environment and Natural Resources (BMB-DENR) Marine Fisheries; Reef Fish Ecology; Marine Protected Area, Coastal Resource Management wvhilomen@up.edu.ph; wvw.vhilomen@up.edu.ph; <a href="www

VERA CHRISTINE F. HORIGUE, Ph.D.

Capturing Coral Reefs and Related Ecosystem Services (CCRES) Project, Marine Science Institute, University of the Philippines, Diliman

Marine Conservation; Marine Protected Area Networks

vera.horigue@goglemail.com

WILLIAM P. JATULAN

Ecosystem Improved for Sustainable Fisheries (ECOFISH) Project Program Development; Institutional Development Wiatulan@gmail.com

LYNETTE T. LAROYA

Coral Triangle – Southeast Asia Project Institutional development – marine conservation programs; Coral Triangle MPA System laroyalynette@gmail.com

THERESA MUNDITA S. LIM, Director

Biodiversity Management Bureau-Department of Environment and Natural Resources (BMB-DENR) International and regional frameworks for Protected Areas director@bmb.gov.ph

GERARDO M. MAGLINTE, LL.B., Executive Director Lanuza Bay Development Alliance (LBDA) Institutional development - LBDA; Environmental law; Policy formulation germaglaw@yahoo.com; lanuzabay lbda@yahoo.com

SAMUEL ANTONIO E. MAMAUAG, Ph.D. Marine Environment and Resources Foundation, Inc. Marine Fisheries Management samuel.mamauag@gmail.com

ROQUELITO H. MANCAO RARE - Philippines Coastal and Fisheries Resources Management RMancao@rare.org

HON. EUFRACIO P. MARATAS, JR. Sangguniang Bayan (Municipal Council), Pilar, Cebu Sustainable development - Small islands; MPA management (Pilar) fresh_maratas@yahoo.com

EVANGELINE FLORENCE B. MICLAT

Conservation International - Philippines
Seascape management and governance; Institutional and policy development for national and international marine conservation programs
emiclat@conservation.org

JONATHAN C. MINGI St. John the Baptist Fish Sanctuary (SJBFS) Management Board, Pola, Oriental Mindoro MPA Management – SJBFS RICHARD N. MUALLIL, Ph.D.
Mindanao State University – Tawi-Tawi
Sustainability of small-scale fisheries; Fisheries decision support systems
rnmuallil@gmail.com

PROSPERO C. NAVAL, Ph.D.

Department of Computer Science, University of the Philippines, Diliman Quezon City Probabilistic Machine Learning and Decision-making, Swarm Robotics and Computation pcnaval@dcs.upd.edu.ph

MA. ALETA C. NUÑEZ, LL.M.
US National Oceanic and Atmospheric Administration (NOAA)
Environmental Law; Policy-Making and Governance; Conflict management alettnunez@gmail.com

LIZA EISMA-OSORIO, LL.B.
Foundation for the Philippines Environment (FPE); University of Cebu
Environmental Law
liza.eismaosorio@gmail.com

MARIVIC G. PAJARO, Ph.D.
Daloy ng Buhay Inc. (DALUHAY Foundation)
Indigenous resource management; Community-based MPA management
marivic.pajaro@gmail.com

WILMAN C. POLLISCO, LL.B. USAID-B+WISER Program

Environmental Law and policy; Legal aspects of protected area management and governance wpollisco@bwiser.net

ROBERT S. POMEROY, Ph.D.

University of Connecticut-Avery Point, USA

Fisheries Management and Development; Aquaculture Economics; Coastal Resource Management robert.pomeroy@uconn.edu

RUDOLFO FERDINAND N. QUICHO, JR., LL.B.

UNDP GEF-Small Grants Programme

Environmental law and policy; protected area management and governance <u>junquicho@gmail.com</u>

SUZANNA R. ROLDAN

School of Social Sciences, Ateneo de Manila University
Traditional Belief Systems and Practices Related to Coastal Resources Management Programs
sroldan@ateneo.edu

RINA MARIA P. ROSALES

Resources, Economics, Environment Center for Studies (REECS) Inc.

Environment Economics; Natural Resource Economics; Coastal Resource Management; Sustainable financing

rinamariarosales@gmail.com

STELLA MARIS P. SALAS

Freelance Consultant

Finance; Ring-Fencing and Business Plan Development for environmental governance and natural resource management

stellamaris.salas@gmail.com

LEILANI A. SOLERA

GEF - Capturing Coral Reef & Related Ecosystem Services (CCRES) Project Physical oceanography leilani.soleara@gmail.com

ANGELIQUE M. SONGCO

Tubbataha Reefs Natural Park (TRNP)

Environment and Natural Resources Manager

Environment and Natural Resources Management; TRNP Management angelique@tubbataha.org

COL. GREG R. TOGONON

Philippine National Police – Maritime Group, Region 6 (PNP-VI) Maritime Law Enforcement

ANNABELLE C. TRINIDAD

The Biodiversity Finance Initiative (BIOFIN) of the United Nations Development Programme (UNDP) Public Finance; Socio-Economics of Fisheries and Resource Valuation; Coastal Resource Policy abbietrinidad@gmail.com

ANDRE J. UYCHIAOCO, Ph.D.

Deutsche GesellschaftfürInternationaleZusammenarbeit (GIZ) GmbH Marine Protected Area (MPA) Management; Monitoring and Evaluation andrefritz@gmail.com

ARNEL S. YAPTINCHAY, D.V.M.

Marine Wildlife Watch of the Philippines

Marine Turtle Conservation; Ecology of Large Marine Mammals; Information and Education Campaign ayaptinchay@gmail.com

CYNTHIA NERI ZAYAS, Ph.D.

Center for International Studies, University of the Philippines, Diliman Maritime Anthropology chim.zayas@gmail.com

Appendix 3. Site-based Resource Persons

PHILIPPINES

Pangasinan

EUFEMIA RARANG Municipal Agriculturist Municipal Agriculture Office LGU of Bani

JESSEM GABATIN

CRM Technical Staff and MFARMC Chairman Municipal Agriculture Office and Municipal Fisheries and Aquatic Resources Management Council (MFARMC) LGU of Bolinao

ANNABELLE ECHAVEZ CRM Technical Staff Municipal Agriculture Office LGU of Bolinao

DIOSDADO CAROLINO

President

Samahan ng mga Mangingisda at Magsasaka (SAMMAKA) People's Organization (PO) Brgy. Pilar, Bolinao

ARTEMIO CAASI

President

Samahan ng mga Maliliit na Mangingisda ng Victory (SMMV) People's Organization (PO), Brgy. Victory, Bolinao

<u>Bataan</u>

RODOLFO G. DE MESA City Administrator City of Balanga

ALEXANDER M. BALUYOT
Department Head
Provincial Planning & Development Office
City of Balanga

ALLAN BALBUENA

Tour guide

City of Balanga (COB) Wetland and Nature Park, Balanga

MANOLO IBIAS

President

Bantay Pawikan Inc.

Pawikan Conservation Center, Morong

Batangas

LORETA A. SOLLESTRE

Head

Planning and Environment/Coastal Management, Provincial Government-Environment and Natural Resources Office (PG-ENRO), Batangas City

CONSTANCIO RONALD D. CASTILLO

Municipal Agriculturist
Office of the Municipal Agriculturist (OMAg)
LGU of Mabini

MELVIN B. AREVALO Coordinator Municipal Planning and Development Office LGU of Bauan

Oriental Mindoro

MARILYN M. ALCAÑICES

Chief

Fishery and Coastal Resource Management Division, Provincial Agriculture Office Calapan City

RHODORA EMILIA R. RAMIENTO

Marine Protected Area Coordinator

Fishery and Coastal Resource Management Division, Provincial Agriculture Office, Calapan City

Cebu

MILA RAMIREZ
Officer-In-Charge
Municipal Agriculture Office
LGU of San Francisco (Camotes Islands)

RAMIRO BUNGTOD Agricultural Technologist Municipal Agriculture Office LGU of Carmen

ELIZABETH FERNANDEZ-BENOLOGA Municipal Tourism Officer

LGU of Oslob

CESARIO GUMAYAN

Auditor

Tanawan Oslob Sea Wardens and Fishermen's Association (TOSWFA), Oslob

ARVIN TRAVERO

President

Oslob Boat Rental Association (OBRA), Oslob

LUKE PENKETH

Collaborator

Large Marine Vertebrates Project (LAMAVE) – Philippines, Oslob

ROMEL KIRIT
Coastal Resource Management Consultant
LGU of Moalboal

lloilo

EMELINDA A. ABIAN Environment Management Specialist LGU of Concepcion

HON. ROMEO C. LANCIOLA Sangguniang Bayan (Municipal Council) LGU of Concepcion

Negros Occidental

WILFRED RAMON M. PEÑALOSA, LL.B. Provincial Environment Management Officer Provincial Environment Management Office (PEMO) Bacolod City

MA. ELENA B. SAN JOSE Coastal Program Coordinator Provincial Environment Management Office (PEMO) Bacolod City

RODERICO V. BOLO Aquaculture Technologist Fisheries and Management Section, Office of the Provincial Agriculturist LGUs of Sipalay City and Hinoba-an

MAYO ANTONIO M. CUEVA Protected Area Superintendent (PASU) Sagay Marine Reserve, Sagay

JOSE ROBERTO TOGLE Head - Research Division Sagay Marine Reserve, Sagay

HELEN A. CUTILLAR City Tourism Officer Sagay City

MARCEL H. IRISARI Executive Director Northern Negros Aquatic Resources Management & Advisory Council (NNARMAC) Sagay City

Negros Oriental

MANRIC M. BARILLO CRM Coordinator Environment and Natural Resources Division, Office of the Governor Dumaguete City

ARLENE K. CORSAME Municipal Agriculture Officer Municipal Agriculture Office LGU of Dauin

MALAYSIA

Kota Kinabalu

FAZRULLAH RIZALLY ABDUL RAZAK Head – Marine Parks Section and Member of Board of Trustees Division of Park Management and Operation, Sabah Parks

ROBECCA JUMIN Head – Marine Programs World Wildlife Fund (WWF)-Malaysia

Sandakan

JUFRI NASRI Manager Turtle Islands Park

MOHAMMAD KASSIM BIN KARIM Ranger Turtle Islands Park