



DOST-PCAARRD

Department of Science and Technology

**PHILIPPINE COUNCIL FOR AGRICULTURE, AQUATIC AND NATURAL RESOURCES
RESEARCH AND DEVELOPMENT**

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OFFICE OF THE EXECUTIVE DIRECTOR

8 January 2018

Dr. Deo Florence L. Onda
Green Talents Fellow
Polar and Marine Research Group
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Dear **Dr. Onda**:

This refers to your request for a list of marine or oceanographic programs/projects funded by DOST and PCAARRD Grants-in-Aid program from 2000 to 2017.

An initial list of programs/projects on marine/oceanography for the period covering 2010 - 2017 was sent by email to you on 14 December 2017. Please find attached, a more extensive list of programs/projects that were funded/supported by DOST and PCAARRD for the years covering 2000 – 2017, as far as the records of Marine Resources Research Division (MRRD) of PCAARRD can provide.

Thank you.

Very truly yours,

RV Ebora
REYNALDO V. EBORA, Ph.D.
Acting Executive Director *RV*



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LIST OF MARINE/OCEANOGRAPHY PROJECTS FUNDED BY DOST AND PCAARRD, 2000 - 2017

Implementing Agency	Program Title	Project Title	Start Date/ Year	STATUS
COMPLETED PROJECTS 2000 - 2009				
UPD		Seedstock improvement of Kappaphycus, Eucheuma and Gracilaria	2000	
		Coastal resources management project for Unisan, Quezon	2000	
UP-MSI		Coral Reef Network of the Philippines	2001	
		Integrated Visayan Sea for coastal resources and fisheries management program	2001	
BFAR-VI, LGUs		Integrated Visayan Sea for Coastal Resources and Fisheries Management Program	2002	
ZSCMST		Promotion of Management of Holothurian Resources in Davao Gulf	2002	
UPV		Rehabilitation of Diwal Fishery of Negros Occidental	2002	
DMMMSU, MMSU		Improved Processing of Porphyra in Ilocos Norte	2002	
MSU-Naawan, LGU of Lopez aena and Province of Misamis Occidental		Strengthening the Integrated Coastal Resource Management (ICRM) Program for Northern Mindanao	2007	
Seaweeds, Growers Assoc. (KOGSA)		Establishment of Seaweeds Seedlingbanks	2007	
SSPSC		Seaweeds Seedling Production System	2007	
SSPSC		Seaweed Seedling Production System	2008	
Alcantara Cebu		Mariculture of Siganids and Seaweeds in Selected Coastal Areas for Small Fisherfolk (MARFISCA)	2008	
UPMSI		Antimicrobial Metabolites from Microorganisms Associated with Marine Organisms	2000	
UPMSI		ASEAN-Canada Phase II	2000	
UPMSI		Interaction of Paralytic Shellfish Poison (PSP) with Algal Polysaccharides	2000	
UPMSI		Pacific Seaboard Program : Assessment of Reef Resources in Eastern Philippines	2000	
UPMSI		Pacific Seaboard Program : Oceanographic Studies on the Mindanao Eddy, North Equitorial (NEC) Bifurcation and Fluxes into Archipelagic	2000	
SSPC		Pacific Seaboard Program : Lianga Bay Integrated Coastal Management Program	2000	
PNRI, UPMSI		Application of Nuclear Techniques to Address Specific Red Tide (Harmful Algal Bloom) Concerns: Synthesis of Tritium- Labelled Saxitoxin	2000	

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Implementing Agency	Program Title	Project Title	Start Date/ Year	STATUS
PNRI, UPMSI		Application of Nuclear Techniques to Address Specific Red Tide (Harmful Algal Bloom) concerns: Development of Rapid Assay for the Detection of Paralytic Shellfish Poisons	2000	
UPMSI, UP-NIGS		Application of Nuclear Techniques to Address Specific Red Tide (Harmful Algal Bloom) concerns: Role of Sediments of Toxic Algal Blooms and Record Occurrences in Bay Sediments	2000	
PNRI		Application of Nuclear Techniques to Address Specific Red Tide (Harmful Algal Bloom) concerns: Sediments Studies in Red Tide Areas Using Isotope Techniques	2000	
UPMSI		Application of Nuclear Techniques to Address Specific Red Tide (Harmful Algal Bloom) concerns: Modelling of Toxic Red Tide in the Philippines	2000	
UPMSI		Application of Biotechnology to seaweeds mariculture: Development of Gene Transfer Techniques	2000	
UPMSI, MCPI, Seaweeds Farmers		Seedstock Improvement of <i>Kappaphycus</i> and <i>Eucheuma</i>	2001	
Municipality of Unisan DOST IV		Coastal Resources Management in Unisan, Quezon	2001	
UPD		Pacific Seaboard R&D Program Project 1: Assessment of Reef Resources in Eastern Philippines	2002	
UPMSI		Pacific Seaboard R&D Program Project 2: Oceanographic Studies in the Mindanao Eddy, North Equatorial Current (NEC) Bifurcation and Fluxes in the Archipelagic Seas	2002	
UPMSI		Pacific Seaboard R&D Program Project 3: Oceanographic Survey of the Philippines Archipelagic Waters in Central Philippines	2002	
UPMSI		Pacific Seaboard R&D Program Project 4: Lianga Bay Integrated Coastal Management Program	2002	
UPMSI		Seedling Banking Operations for Better Quality of <i>Kappaphycus</i> and <i>Eucheuma</i>	2002	
UPMSI		Biotechnology of <i>Gracilaria</i> and <i>Kappaphycus</i>	2003	
UPMSI		Seedling Bank for Better Quality Cultivars	2003	
UPMSI		<i>Noctiluca scintillans</i> as potential biological control for the toxic dinoflagellate <i>Pyrodinium bahamense</i>	2003	
UPMSI		Biotechnology of <i>Gracilaria</i> and <i>Kappaphycus</i>	2004	

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Implementing Agency	Program Title	Project Title	Start Date/ Year	STATUS
		Seedling Bank Operation of Better Quality Seedstocks of <i>Kappaphycus</i> and <i>Euचेuma</i>	2004	
UPD		<i>Noctiluca scintillans</i> as potential biological control for the toxic Dinoflagellate <i>Pyrodinium bahamense</i>	2004	
PNRI, UPD		IAEA-DOST Phase II Program Development and Application of Predicting, Controlling and Mitigation (PCM) Techniques for Harmful Algal Blooms (HABs) in Selected Mariculture Sites in the Philippines	2004	
UPD		Development of Culture Technology for Small-size and/or Mucilaginous Seaweed Species (<i>Halymenia durvillaei</i> , <i>Portiera hornemanni</i>) and Screening of their High Value Natural Products	2005	
PNRI, UPD		IAEA-DOST Phase II Program: Development and Application of Predicting, Controlling and Mitigating (PCM) Techniques for Harmful Algal Blooms (HABs) in Selected Mariculture Sites in the Philippines	2005	
UPD		Pacific Seaboard Research and Development Program II	2005	
		Population Dynamics and Connectivity of Two Model Reef Fishes: Crucial Intermediate Steps to Fisheries Ecosystem Management	2005	
UPD		Seedling Bank Operations for Better Quality of <i>Kappaphycus</i> and <i>Euचेuma</i>	2005	
WorldFish Center PCAMRD		Logistic Systems Performance Evaluation in the Fisheries Sector in Asian Countries	2007	
UPMSI, UPV UP MIN		Resource Management and Culture of Tropical Sea Cucumber <i>Holothuria scabra</i> jeager	2007	
PNRI		Development of Toxicity Model for Paralytic Shellfish Toxins in Mussel: Uptake and Release of Toxins in Green Bay Mussels	2007	
UP National Institute of Geological Sciences PCASTRD		Determining the Effect of the M/T Solar 1 Oil Spill on the Groundwater System of Guimaras Island Through Geophysical Surveys	2008	
MSU Naawan PNRI		Resource and Ecological Assessment Preparing to Management of Macalajar Bay, Northern Mindanao, Philippines	2007	
		Development of Toxicity Model for Paralytic Shellfish Toxins in Mussel: Uptake and Release of Toxins in Green Bay Mussels	2008	
MSU Naawan		Resource and Ecological Assessment Preparing to Management of Macalajar Bay,	2008	

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Implementing Agency	Program Title	Project Title	Start Date/ Year	STATUS
		Northern Mindanao, Philippines		
UPMSI		Biotechnology of Kappaphycus and Gracilaria Phase II	2009	
PNRI		Development of a Toxicity Model for Paralytic Shellfish Toxins in Mussels: Uptake and Release of Toxin in Green Bay Mussel	2009	
UPV		Studies on the Biology and Fishery of the Short-Necked clam, Paphia undulata from the western waters of Negros Occidental	2009	
UPV		Studies on the Biology and Fishery of the Short-Necked Clam, Paphia undulata from the Waters of Negros Occidental	2009	

ONGOING AND COMPLETED PROGRAMS/ PROJECTS, 2010 - 2017

PSU		Mechanizing the Production Systems in Philippines Seaweed Farms and Developing Improved Seaweed Processing Culture in PSU	2017	ONGOING
DLSU		Capacity Building for Reef Assessment and Coral Taxonomy	2017	ONGOING
PNRI		Screening for radionuclide contamination from the Fukushima accident by Iodine-129 measurement in corals from the Philippines	2017	ONGOING
UPD		DNA Barcoding and Genetic Diversity of Selected Marine Fishes along the North Bifurcation of the North Equatorial Current (NEC)	2017	ONGOING
DLSU		Detecting Population Structure and Temperature Response of Tridacna sp. Using NGS Technology	2017	ONGOING
BU		Current Status and Resilience of Coral Reefs in Lagonoy Gulf, Eastern Bicol	2017	ONGOING
UP MIN		DNA Barcoding of Selected Marine Fishes in Davao and Sulu Archipelago	2017	ONGOING
UPD		Kuroshio Current Observing System in the Philippines: Remote Observations of the Interactions of the Kuroshio with Internal Tides and Mesoscale Currents in Luzon Strait by High Frequency Doppler Radio Scatterometer (HFDRS)	2017	ONGOING
PNRI		Transfer of AOAC Accredited Isotope-Based Receptor Assay for Paralytic Shellfish Toxins to Regulatory Setting	2014	COMPLETED
UPD		Project 1. Synoptic Investigation of Human Impacts on Nearshore Environments (SHINE): Coral Reefs	2014	COMPLETED
UPD		Project 3. Synoptic Investigation of Human Impacts on Nearshore Environments (SHINE): Reef-Associated Habitats	2014	COMPLETED
DNSC		Pangtawid Project for the Rehabilitation of Davao Oriental and Compostela Valley brought about by the Typhoon Pablo through Seaweed Farming	2013	COMPLETED
USC		Development of Nano Anti-microorganism Agents Using Glycolipid Biosurfactants Derived from Macroalgal Feedstock Bioconversion	2014	COMPLETED
UPV TAC		Rehabilitation of Leyte and Samar Province brought about by Typhoon Yolanda through Seaweed Farming	2013	COMPLETED
XAVIER/ MSU N/ SPAMAST		Seaweed Area-GIS based Mapping as Production Support System for Sustainable Seaweed Farming in the Philippines	2014	COMPLETED
MSU TCTO/ UPV TAC		Project 3. Evaluation and Enhancement of the Blue Swimming Crabs Wildstocks	2014	COMPLETED

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Implementing Agency	Program Title	Project Title	Start Date/ Year	STATUS
UPV TAC		Proj 2: Sustaining the sardine fisheries industry through understanding spatio-temporal dynamics in the Zamboanga peninsula and Bohol Sea system (SardDyn)	2011	COMPLETED
MSU N		Development of Captive breeding and hatchery technology for white Teatfish, <i>Holothuria fuscogilva</i> (Cherbonnier 1980) from Lopez Jaena, Misamis Occidental	2015	COMPLETED
SEAFDEC	NATIONAL ABALONE R&D PROGRAM	Project 1. Improvement of Reproductive Performance of Abalone Through Refinement of Broodstock Management and Selective Breeding	2014-2017	COMPLETED
		Project 2. Improvement of Trocophore Production and Settlement Rate	2014	COMPLETED
		Project 3. Grow-out of Abalone in Small Island and/or Community	2014	COMPLETED
UPV/SEAFDEC/ UPV TAC/ MSU MSU TCTO	NATIONAL R&D PROGRAM ON BLUE SWIMMING CRABS	Project.1. Improvement of Larval Rearing Protocol for Blue Swimming Crabs <i>Portunus pelagicus</i>	2014-2017	COMPLETED
		Project 2. Development of Nursery Culture for the Blue Swimming Crabs <i>Portunus pelagicus</i>		COMPLETED
		Project 1. Conditioning and Transport of Hatchery-Reared Blue Swimming Crab	2014-2017	COMPLETED
		Project 2. Developing Pond Grow-out Culture Technology of Blue Swimming Crab	2014	COMPLETED
UPD/ DLSU	NATIONAL CORAL R&D PROGRAM	Project 1: Culture Technologies for Coral Propagules From Eggs and Larvae	2014	COMPLETED
		Project 2: Sexual Reproduction in Selected Coral Reef Species Across the Philippine Archipelago	2014	COMPLETED
		Project 1: Identifying Resilient Coral Species	2014	COMPLETED
		Project 2: Exploring Molecular Mechanisms Underlying Coral Resilience to Thermal Stress	2014	COMPLETED
		Project 3: Developing Genetic Guidelines in support of coral restoration and rehabilitation (Included Project 4. <i>Sexual Propagation of Corals and Reef Restoration: Developing Genetic Guidelines Towards Enhanced Resilience</i>)	2014	COMPLETED
SEAFDEC/SSU/ UPV	NATIONAL OYSTER R&D PROGRAM	Project 1. Broodstock Management and Conditioning of the Oyster <i>Crassostrea iredalei</i> to Maximize Production	2014-2017	COMPLETED
		Project 2. Establishment of Small Scale Hatchery for the Refinement of the Larval, Post-Larval and Nursery Rearing Techniques for <i>Crassostrea iredalei</i>		COMPLETED
		Project 3. Genetic Characterization and Selective Breeding of Slipper-Shaped Oyster, <i>Crassostrea iredalei</i>		COMPLETED
		Project 1. Establishment of Safety Quality Oysters and their Culture Environment	2014-2017	COMPLETED
		Project 2. Refinement of Existing Oyster Grow-out Techniques		COMPLETED
		Project 3. Grow-out Culture of Slipper Shaped Oyster Using the Raft Long-line Method		COMPLETED
UPD	Assessing the Status of Giant Clams and Advancing Culture Techniques	Project 1. Evaluating the status of giant clams in Luzon and Visayas	15-Nov-17	ONGOING
UPD	Assessing the Status of Giant Clams and Advancing Culture Techniques	Project 4. Development of molecular resources for enhancement of culture and rearing techniques	15-Nov-17	ONGOING
UPD	Coastal Acidification: How it Affects the Marine Environment and Resources in the Philippines	Project 1: Spatio-temporal trends in pH, CO ₂ , and related parameters	15-Nov-17	ONGOING
UPD	Coastal Acidification: How it Affects the Marine Environment and Resources in the Philippines	Project 2: Impacts of acidification on the base of the marine food web and their effects on marine production	15-Nov-17	ONGOING
UPD	Coastal Acidification: How it Affects the Marine Environment and Resources in the Philippines	Project 3: Possible influence of acidification on specific reef resources	15-Nov-17	ONGOING
UPD	Detection and Mitigation Technology and Early Warning System for Philippine Harmful Algal Blooms (HABTech)	Project 1. HAB Detection and Mitigation Technology	02-Mar-12	COMPLETED

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Implementing Agency	Program Title	Project Title	Start Date/Year	STATUS
UPD	Detection and Mitigation Technology and Early Warning System for Philippine Harmful Algal Blooms (HABTech)	Project 2. Development of a Harmful Algal Bloom Operational Predictive System for the Philippines (HAB-OPS)	01-Jan-12	COMPLETED
UPD	Development of Robust Tools for Managing Sardine Fisheries in the Philippines: Zamboanga Upwelling-Bohol Sea System	Project 1. Capturing the dynamic linkages between small pelagic fisheries and primary production through satellite images and models for better resource management in the Bohol Sea and Zamboanga Peninsula	01-Oct-11	COMPLETED
UPV	Development of Robust Tools for Managing Sardine Fisheries in the Philippines: Zamboanga Upwelling-Bohol Sea System	Project 3. Estimating Early Life Stages Mortality and Sources of Recruits	01-Oct-11	COMPLETED
UPD	Development of Robust Tools for Managing Sardine Fisheries in the Philippines: Zamboanga Upwelling-Bohol Sea System	Project 5. Molecular technology-based assessment of the sustainability of sardine fisheries	16-Jun-14	ONGOING
UPD	Ecology and Oceanography of Harmful Algal Blooms (HABs) in the Philippines	Project 1. Biodiversity/Genetic diversity of selected HAB-forming species in the Philippines	01-Feb-09	COMPLETED
UPD	Ecology and Oceanography of Harmful Algal Blooms (HABs) in the Philippines	Project 2. Microbial community (HAB species and associated bacteria) composition and succession	01-Feb-09	COMPLETED
UPD	Ecology and Oceanography of Harmful Algal Blooms (HABs) in the Philippines	Project 3. Toxinology and toxicology of Philippine harmful algal bloom species	01-Feb-09	COMPLETED
UPD	Ecology and Oceanography of Harmful Algal Blooms (HABs) in the Philippines	Project 4. Fish kills, algal blooms and eutrophication in the tropics	01-Feb-09	COMPLETED
UPD	Ecology and Oceanography of Harmful Algal Blooms (HABs) in the Philippines	Project 5. Eutrophication, climate and algal blooms in the tropics	01-Feb-09	COMPLETED
UPD	Ecology and Oceanography of Harmful Algal Blooms (HABs) in the Philippines	Project 7. Stratification and algal blooms in the tropics	01-Feb-09	COMPLETED
UPD	Ecology and Oceanography of Harmful Algal Blooms (HABs) in the Philippines	Project 8. Harmful algal bloom mitigation in the tropics	01-Feb-09	COMPLETED
UPD	Enhancing Sea Cucumber Production: Uncovering and Utilizing Genetic Resources for Sustainable Development	Project 1. Developing Genomic Resources for <i>Holothuria scabra</i> in Support of Broodstock Selection and Stock Delineation	01-Aug-15	ONGOING
UPD	Enhancing Sea Cucumber Production: Uncovering and Utilizing Genetic Resources for Sustainable Development	Project 2: Identifying management units for high value sea cucumber species, <i>Holothuria scabra</i> and <i>Stichopus horrens</i>	01-Aug-15	ONGOING
UPD	Exploration, Mapping, and Assessment of Deep Water Areas	Project 1. Benham Rise Potential Productivity Research	01-Dec-13	COMPLETED
UPD	Exploration, Mapping, and Assessment of Deep Water Areas	Project 2. Establishment of a Deep Sea Resources Data Center	01-Apr-14	COMPLETED
UPLB	Exploration, Mapping, and Assessment of Deep Water Areas	Project 3. Assessment of the Benthic Resources of the Benham Bank Seamount (SM-Benthos)	01-Apr-14	COMPLETED
UPLB	Exploration, Mapping, and Assessment of Deep Water Areas	Project 4. Exploration of the Benham Bank Seamount (BBS)	01-Jun-16	COMPLETED
UPD	Increasing Sea Cucumber Culture Production and Value of Dried Sea Cucumber Products	Project 1: Development of commercial-scale production system for high-value tropical sea cucumber, <i>Holothuria scabra</i>	15-May-12	COMPLETED
UPD	Increasing Sea Cucumber Culture Production and Value of Dried Sea Cucumber Products	Project 2: Genomic approaches towards enhanced broodstock quality of the sandfish, <i>Holothuria scabra</i>	15-May-12	COMPLETED
UPLB	Increasing Sea Cucumber Culture Production and Value of Dried Sea Cucumber Products	Project 3: Enhancing the Philippine sea cucumber industry through appropriate processing technology	15-May-12	COMPLETED
UPD	Increasing Sea Cucumber Culture Production and Value of Dried Sea Cucumber Products	Project 4. Stock Delineation and Phylogenetics of Selected High-Value Sea Cucumbers in Support of Conservation and Management	01-Oct-11	COMPLETED
UPV	Increasing Sea Cucumber Culture Production and Value of Dried Sea Cucumber Products	Project 5. Seedstock production of valuable sea cucumbers, <i>Phyllophorus proteus</i> (Ball sea cucumber) and <i>Bohadschia marmorata</i> (chalkfish) in the VISAYAS	01-Apr-14	COMPLETED
UPV	Management of Tuna Fisheries in the Philippines	Proj. 2: Genetic Stock Structure of Yellowfin Tuna (<i>Thunnus albacares</i>) and Big Eye Tuna (<i>Thunnus obesus</i>) in Philippines Waters	01-Jun-10	COMPLETED
UPV	Management of Tuna Fisheries in the Philippines	Proj. 4: Technical Assessment of the Effects of Mesh Size and Net Depth on the Catch Composition and size Structure of Surrounding Nets	01-Jun-10	COMPLETED

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Implementing Agency	Program Title	Project Title	Start Date/ Year	STATUS
UPV	Management of Tuna Fisheries in the Philippines	Project 4. Technical Assessment of the Effects of Modifying Mesh Size and Net Depth on the Catch Composition and Size Structure of Tuna in Surrounding Nets	01-Jun-10	COMPLETED
UPD	MECO-TECO Program	Coral-Inferred Contemporary Tsunami History in Verde Island Passage	01-Mar-14	COMPLETED
UPD	Molecular Studies on HAB Causative Organisms and Associated Bacteria (HAB Genomics)	Project 1. Toxins and Other Natural Products from HAB Causative Organisms and Bacteria for Standards and Tools	01-Mar-12	COMPLETED
UPD	Molecular Studies on HAB Causative Organisms and Associated Bacteria (HAB Genomics)	Project 2. Biosynthetic Genes and Genetic Molecular Tools for HAB Detection and Monitoring	01-Mar-12	COMPLETED
UPD	National Assessment of Coral Reef Environments (NACRE)	Project 2. People and the Environment: Assessment of Reef-fish Resiliency and Associated Livelihoods (PEARRAL)	01-Jul-14	ONGOING
UPD	National Assessment of Coral Reef Environments (NACRE)	Project 4. Watershed and Ocean Parameters for Assessment of Coral Reef Health	01-Jul-14	ONGOING
UPD	National Assessment of Coral Reef Environments (NACRE)	Project 5. Coral Reef Knowledge Management System: Bayesian Belief Network Modeling and Remote Sensing	01-Jul-14	ONGOING
UPD	Production of Corals for Reef Restoration: Program A: Production of Corals Through Sexual Reproduction	Project 1: Culture Technologies for Coral Propagules From Eggs and Larvae	01-Jan-14	ONGOING
UPD	Production of Corals for Reef Restoration: Program A: Production of Corals Through Sexual Reproduction	Project 2a: Sexual Reproduction in Selected Coral Reef Species Across the Philippine Archipelago (Luzon)	01-Jan-14	ONGOING
UPD	Production of Corals for Reef Restoration: Program B: Molecular Genetic and Genomic Studies of Coral Resilience in support of coral restoration and rehabilitation efforts	Project 1: Identifying Resilient Coral Species	01-Jan-14	ONGOING
UPD	Production of Corals for Reef Restoration: Program B: Molecular Genetic and Genomic Studies of Coral Resilience in support of coral restoration and rehabilitation efforts	Project 2: Exploring Molecular Mechanisms Underlying Coral Resilience to Thermal Stress	01-Jan-14	ONGOING
UPD	Production of Corals for Reef Restoration: Program B: Molecular Genetic and Genomic Studies of Coral Resilience in support of coral restoration and rehabilitation efforts	Project 3: Developing Genetic Guidelines in support of coral restoration and rehabilitation (Included Project 4. Sexual Propagation of Corals and Reef Restoration: Developing Genetic Guidelines Towards Enhanced Resilience)	01-Jan-14	ONGOING
UPV	Program A. Development of Broodstock and Hatchery Technologies for the Tropical Oyster <i>Crassostrea iridalei</i> (Faustino, 1932) in the Philippines	Project 3. Genetic Characterization and Selective Breeding of Slipper-Shaped Oyster, <i>Crassostrea iridalei</i>	01-Apr-14	COMPLETED
UPV	Program A. Hatchery and Nursery Operations of Blue Swimming Crabs, <i>Portunus pelagicus</i>	Project 3. Evaluation and Enhancement of the Blue Swimming Crabs Wildstocks	01-Feb-14	COMPLETED
UPV	Program B. Developing Grow-out Culture Technology for Blue Swimming Crabs, <i>Portunus pelagicus</i>	Project 1. Conditioning and Transport of Hatchery-Reared Blue Swimming Crab	01-Feb-14	COMPLETED
UPV	Program B. Developing Grow-out Culture Technology for Blue Swimming Crabs, <i>Portunus pelagicus</i>	Project 2. Developing Pond Grow-out Culture Technology of Blue Swimming Crab	01-Feb-14	COMPLETED
UPD	Program B. New and Improved <i>Kappaphycus</i> and <i>Eucheuma</i> Varieties Strains for Farming	Project 1: Strain Development/Hybridization in <i>Kappaphycus</i> Utilizing Spores and Tissues	01-Jan-12	COMPLETED
UPD	Program B. New and Improved <i>Kappaphycus</i> / <i>Eucheuma</i> Varieties Strains for Farming	Project 3: Discrimination of <i>Kappaphycus</i> Varieties Using Genome-Wide Highly Polymorphic Markers	01-Jan-12	COMPLETED
UPD	Reef Restoration: Preserving Coral Biodiversity and Increasing Reef Resilience in the Face of Climate Change	Project 1: Conserving Biodiversity and Restoring Damaged Reefs Through Community Involvement	01-Mar-10	COMPLETED
UPD	Reef Restoration: Preserving Coral Biodiversity and Increasing Reef Resilience in the Face of Climate Change	Project 2: Production of Coral Propagules for Reef Restoration	01-Mar-10	COMPLETED

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Implementing Agency	Program Title	Project Title	Start Date/ Year	STATUS
UPD	Remote Sensing Information for Living Environments and Nationwide Tools for Sentinel Ecosystems in our Archipelagic Seas (RESILIENT SEAS) for Climate Change (formerly ICE CREAM Program)	Proj 1. Climate Change and the Coast: Vulnerability of Benthic-Pelagic Productivity	01-Feb-09	COMPLETED
UPD	Remote Sensing Information for Living Environments and Nationwide Tools for Sentinel Ecosystems in our Archipelagic Seas (RESILIENT SEAS) for Climate Change (formerly ICE CREAM Program)	Proj 2. Retrospective Analyses of Climate Change from Coastal Erosion Trend and Uplifted Coral Reef Assemblages	01-Feb-09	COMPLETED
UPV	Remote Sensing Information for Living Environments and Nationwide Tools for Sentinel Ecosystems in our Archipelagic Seas (RESILIENT SEAS) for Climate Change (formerly ICE CREAM Program)	Proj 4. Fisheries Ecosystem Connectivity and Monitoring	01-Feb-09	COMPLETED
UPD	Remote Sensing Information for Living Environments and Nationwide Tools for Sentinel Ecosystems in our Archipelagic Seas (RESILIENT SEAS) for Climate Change (formerly ICE CREAM Program)	Proj 8. Research and Development of Adaptive Management and Feedback Monitoring Networks	01-Feb-09	COMPLETED
UPD	Resource Management and Culture of Tropical Sea Cucumber <i>Holothuria scabra</i> Jaeger	Project 1. Grow-Out Culture and Stock Enhancement of Tropical Sea cucumber <i>Holothuria scabra</i>	01-May-07	COMPLETED
UPV	Resource Management and Culture of Tropical Sea Cucumber <i>Holothuria scabra</i> Jaeger	Project 2. Seed production and Stock Enhancement of the Sandfish, <i>Holothuria scabra</i> (Holothuroidea: Echinodermata) and other exploited species of sea cucumber	01-May-07	COMPLETED
UPMin	Resource Management and Culture of Tropical Sea Cucumber <i>Holothuria scabra</i> Jaeger	Project 3. Collaborative efforts in stock enhancement, post-harvest processing and marketing strategies of tropical sea cucumber <i>Holothuria scabra</i> Jaeger	01-May-07	COMPLETED
UPD	Seaweeds R&D Program: Program A. Culture Technology Enhancement to Improve Production Capacity of Philippine Seaweed Farms	Project 1. Use of Branch and Spore Culture Technologies to Enhance Seaweed Production in Farms	01-Jan-12	COMPLETED
UPD	Seaweeds R&D Program: Program A. Culture Technology Enhancement to Improve Production Capacity of Philippine Seaweed Farms	Project 2 : Technology Development for Micropropagation and Cryopreservation of Philippine Eucheumatoids	01-Jan-12	COMPLETED
UPD	Seaweeds R&D Program: Program A. Culture Technology Enhancement to Improve Production Capacity of Philippine Seaweed Farms	Project 3: Mitigating Production Losses Due to Diseases and Epiphytes in Seaweed Farms	01-Jan-12	COMPLETED
UPD	Seaweeds R&D Program: Program C. Novel Red Algal Poly- and Oligo-Saccharides for Various Applications	Project 1. Improvement of Seaweed Post-Harvest and Carrageenan Extraction Technology	01-Jan-12	COMPLETED
UPD	Seaweeds R&D Program: Program C. Novel Red Algal Poly- and Oligo-Saccharides for Various Applications	Project 2: Recombinant Production of Carrageenanses and Agarases and Production and Characterization of Oligocarrageenans and Oligoagars	01-Jan-12	COMPLETED
UPD	Seaweeds R&D Program: Program C. Novel Red Algal Poly- and Oligo-Saccharides for Various Applications	Project 3: Characterization and Development of New Red Algal Poly-and Oligo -saccharides	01-Jan-12	COMPLETED
UPD		A Comprehensive Report on the Existing Report and Household Utilization of Philippine Seaweeds	01-Mar-14	COMPLETED
UPD		Acquisition of Detailed Bathymetry for Coastal Erosion Management	01-Mar-12	COMPLETED
UPD		An Alternative Biomonitoring Tool Using Artificial Mussels to Assess Metal Pollution in Philippine Coastal Areas	01-Jun-14	COMPLETED
UPD		CEPA (Communication, Education and Public Awareness) and policy review towards improving coastal erosion management in the Philippines	15-Sep-16	ONGOING
UPD		Culture of <i>Ciguatera</i> Causative Organisms for Ciguatera Standard Production and Ciguamonitoring	01-Mar-15	COMPLETED
UPD		When the Blue Sea Turns Red: An Illustrative Book on Philippine Red Tides under the PCAARRD 2015 Pantas Award for Most Outstanding Researcher/ Scientist	03-Nov-15	COMPLETED
UPLB		Development of a Drying system for Seaweeds	01-Sep-15	ONGOING

LIST OF MARINE/OCEANOGRAPHY PROJECTS FUNDED BY DOST AND PCAARRD, 2000 - 2017

Implementing Agency	Program Title	Project Title	Start Date/ Year	STATUS
UPD		Development of Culture for Small-Size and/or Mucilaginous Seaweed Species and Screening of their High Value Natural Products	01-Oct-05	COMPLETED
UPD		Development of Scaled-up Depuration Technologies for HAB Contaminated Shellfish Species	01-Mar-15	COMPLETED
UPD		Distribution and Management of Carrageenophyte Seedstocks Generated From Seaweed Nurseries	01-Dec-14	COMPLETED
UPM		DNA Barcoding of Selected Marine Fishes in Basilan, Sulu and Davao Provinces	01-Oct-17	ONGOING
UPD		Establishing patterns between Harmful Algal Blooms and weather phenomena in support of early-warning systems (Old Title: Linkages between HAB and Weather Phenomena)	03-Jan-17	ONGOING
UPD		Fishing Maps Using Space Technology	01-Sep-13	COMPLETED
UPD		Geophysical Coral Mapping	01-Jul-14	ONGOING
UPLB		Improving Processing of Sea Cucumber through Mechanization and Packaging	01-Mar-15	ONGOING
UPD		Kuroshio Current Observing System in the Philippines: Remote observations of the interactions of the Kuroshio with Internal Tides and Mesoscale Currents in Luzon Strait by High Frequency Doppler Radio Scatterometer	01-Oct-17	ONGOING
UPD		Pilot Scale Production of Ball Clay Technology/SPATT Technology	01-Jan-12	COMPLETED
UPD		Potentially Invasive Marine Organisms Transferrable by Ships in Selected Areas in the Philippines	01-Jan-14	COMPLETED
UPV		Rehabilitation of Leyte and Samar Province brought about by Typhoon Yolanda through Seaweed Farming	01-Dec-13	COMPLETED
UPD		Sea Out-Planting and Seed Stock Production of Laboratory Generated Carrageenophyte Cultivars	01-Mar-16	ONGOING
UPV		Studies on the Biology and Fishery of the Short-Necked Clam, <i>Paphia undulata</i> (Born, 1778)(Mollusca Pelecypoda:Veneridae) from the Waters of Negros Occidental	01-Aug-07	COMPLETED