

## Coastal and Marine Wetlands Technical Working Group Workshop Output

Program/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs
	Short Term (2008-2010)	Medium Term (2008-2012)	Long Term (2008-2017)	Lead	Support	
<b><i>Priority Wetlands (1993 NWAP)</i></b>						
<b>Cabulao Bay</b>						
<ul style="list-style-type: none"> <li>Add areas for reforestation, if applicable</li> </ul>	Conduct assessment surveys	Biodiversity monitoring; reforestation	IEC	DENR	Research groups, NGOs, LGU	Updated biodiversity data, map; management plan
<ul style="list-style-type: none"> <li>Establish crocodile population</li> </ul>	Crocodile population survey, interviews with locals			DENR	Research groups, NGOs,	Field interviews, survey reports, distribution map
<b>Olango Island</b>						
<ul style="list-style-type: none"> <li>Development and strengthening of PO, PAMB.</li> </ul>	Capacity needs assessment,	Trainings	Organizational strengthening (fund raising, etc)	DENR, NGO	LGU	Capacity building trainings, vision-mission, plans
<ul style="list-style-type: none"> <li>Review and updating of management plan.</li> </ul>	Review and update plan		Review and update plan	DENR	LGU, NGO	Updated management plan
<ul style="list-style-type: none"> <li>Provide regular designee PASu</li> </ul>	Designate PASU	Training of PASU		DENR		Effective PASU designated
<ul style="list-style-type: none"> <li>Establish a PASu office with budget</li> </ul>		Fundraising	Organizational strengthening	DENR		Functional PASU Office
<ul style="list-style-type: none"> <li>Push for congressional proclamation.</li> </ul>	Lobby and IEC	Lobby and IEC		LGU	NGO, PAWB	PA with Congressional enactment
<b>Inabanga Coast</b>						
<ul style="list-style-type: none"> <li>Regulate system of harvesting</li> </ul>	Policy, guidelines on harvesting	IEC and Enforcement	Enforcement	LGU, BFAR		Sustainable harvesting, guidelines
<ul style="list-style-type: none"> <li>Regulate payaw (as long as it's for small fishers)</li> </ul>	Policy and guidelines on use of payaw	IEC and Enforcement	Enforcement	LGU, BFAR	PNP	Regulated use of payaw, guidelines

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<ul style="list-style-type: none"> <li>Regulate establishment of payaw a.) area, b.) access of commercial fishers (should be localized and small scale)</li> </ul>	Guidelines and delineation of area	IEC and Enforcement	Enforcement	LGU, BFAR		Guidelines
Malampaya Sound						
<ul style="list-style-type: none"> <li>Collaboration/ partnership with Shell</li> </ul>	Foster partnership	Expand partnership	Expand partnership	LGU	NGO	Partnerships and collaborations
<ul style="list-style-type: none"> <li>Cetacean by-catch (Studies) results of study be translated into policies/ management strategies. (Including crab harvesting)</li> </ul>	Management plan/ policy	Continuous Study and monitoring	IEC and Enforcement	BFAR	Research groups, NGOs	Management plan/ policy
Siargao Island						
<ul style="list-style-type: none"> <li>Review of land use/ zoning plan</li> </ul>	Review Land Use Plan	Create management strategy		LGU		Review conducted
<ul style="list-style-type: none"> <li>Prohibit/ Control sand mining</li> </ul>	Management Strategy	IEC and Enforcement	Enforcement	LGU, DENR		Ordinance
<ul style="list-style-type: none"> <li>Control coastal erosion</li> </ul>	Assessment study					Reduced erosion
Balayan Bay						
<ul style="list-style-type: none"> <li>Updating databases in all areas</li> </ul>	Assessment and updating of database	Monitoring	Monitoring	PAWB	LGU, NGO	Updated database
Buguey Wetlands						
<ul style="list-style-type: none"> <li>Initial implementation of the ADB-ICRMP</li> </ul>	Stakeholder analysis	Implement ADB	Monitoring, evaluation	PAWB	LGU, NGO	Progress report
<ul style="list-style-type: none"> <li>Further baseline studies/ biodiversity surveys (not only on birds)</li> </ul>	Baseline studies	Monitoring assessment	Monitoring, assessment	PAWB	NGO, LGU	Biodiversity studies and reports
<ul style="list-style-type: none"> <li>Control proliferation of fish cages</li> </ul>	Ordinance, enforcement	Alternative livelihood	Enforcement	LGU, DENR	PNP	Ordinance
<ul style="list-style-type: none"> <li>Study on water quality in the area; hydrologic studies</li> </ul>	Hydrologic studies	Monitoring, assessment	Monitoring, assessment	DENR	Research groups, academe	Maps, reports
<ul style="list-style-type: none"> <li>Bay-wide management approach;</li> </ul>	Community	IEC, training	Implement	LGU, DENR	NGO	Management plans,

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(management and zonation plans)	consultations		zoning, plan			zonation plans
• Introduce alternative forms of livelihood for fishermen	Capacity needs assessment	Studies	Trainings and capacity building	LGU	Research groups, NGO	Sound alternative livelihood
• Establish MPA	Studies and demarcations	Community consultations	Training and enforcement	LGU, BFAR/DENR	NGO	Management plan
• Strengthen LGU involvement	Capacity needs assessment	Capacity building	Capacity building	LGU	DENR, NGO	LGU involvement
• Strengthen community/ PO involvement	Capacity needs assessment	Capacity building	Capacity building	NGO	DENR, LGU	PO, community involvement
• Organize and capacity POs; organize and capacity multi-sectoral stakeholder group for bay-wide management	Capacity needs assessment	Organize multi-stakeholder group	Capacity building	NGO	LGU	Multi-sectoral group
• Delineate municipal waters (through ICRMP)	Delineate municipal waters	Zoning Plan	Implement zoning plan	DENR, BFAR	LGU	Maps, reports/ zoning plan
Tayabas Bay						
• Effective reforestation strategies	Studies on species suitability	Reforestation training	Monitoring	DENR	Research groups, NGO, LGU	Reforestation plan, species identified, community training
• Monitoring of water quality especially near coal-fired power plant	Water quality assessment	Monitoring, assessment	Monitoring, assessment	DENR	LGU, research groups	Monitoring report
Talabong Island and Bais Bay						
• Assessment of pollution from sugar mills	Pollution level assessment	Monitoring, assessment	Monitoring, assessment	DENR	LGU, research groups	Monitoring report
• Biodiversity assessment	Biodiversity studies	Monitoring, assessment	Monitoring, assessment	DENR	Research groups, NGO	Biodiversity report
Panguil Bay						
• Rehabilitation of ecosystem continuum (upland to bay)	Management Plan	Implement management plan	Monitoring, evaluation	DENR, LGU	Research groups, NGO	Rehabilitation plan
• Bay-wide management program	Management Plan	Implement management	Monitoring, evaluation	DENR	Research groups, NGO	Management Plan

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		plan				
Ulugan Bay						
• Monitoring to maintain good status	Biodiversity monitoring	Monitoring, assessment	Monitoring, assessment	PCSD, DENR, LGU	NGO,	Monitoring report
• Enhance ecotourism strategies	Ecotourism guidelines, plan	IEC, training, implement	Implement and monitor	DOT, LGU	PCSD	Ecotourism guidelines, plan; monitoring and evaluation reports
Manila Bay						
• Implement Supreme Court decision	Implement	Stakeholder involvement	Monitoring, enforcement	DENR	LGUs, stakeholders	Monitoring and progress reports
• Reintroduction of nilad along coastlines and riverbanks	Study location, effects	Reforestation	Monitoring, stakeholder involvement	DENR, Research groups	LGU, industries, NGOs	Nilad reintroduced
• Strengthen civil society participation	Consultation, IEC	IEC	Enforcement, stakeholder involvement	DENR	NGO's, LGUs	Strengthened civil society
<b>Priority Wetlands List</b>						
Update priority areas						
• Establish criteria/ mechanism for removing, maintaining or selecting new priority areas	Guidelines, mechanism	Selection	Identify action plans and projects	DENR	Experts/ TWG	Selection mechanism
• Consider inclusion as priority sites (suggestions of TWG)	Selection process	Implement projects	Monitoring, evaluation	DENR	Experts/ TWG	Action plans, monitoring reports
<p>Suggest for Inclusion as priority sites:            Take into consideration wetlands along the Pacific Seaboard because of their vulnerability to sea level rise, small islands and for conservation of endangered/ endemic species and migratory species            Areas important</p> <ul style="list-style-type: none"> <li>• Northern Samar Island (facing Pacific seaboard)</li> <li>• Babuyan Group of Islands (South China Sea, Pacific Seaboard)</li> <li>• Vitaly Wetlands, Zamboanga (being pushed to be a protected area)</li> <li>• Malalag Bay, Davao del Sur (nominated to be included in the East Australasian Flyway)</li> </ul>						

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<ul style="list-style-type: none"> <li>Icagosl Island Garden City of Samal, Davao del Norte (seagrass, habitat of dugong)</li> </ul> <p>Recommend (monitoring)</p> <ul style="list-style-type: none"> <li>Verde Island Passage and Marine Corridor</li> <li>Tawi-Tawi (difficult to monitor. Recommendation: initiate wetland study through Remote Sensing; coordinate with LGU and MSU for research, information drives and implementation)</li> </ul>						
<b>Wetland Type</b>						
Mangroves						
<ul style="list-style-type: none"> <li>Improve monitoring and evaluation studies</li> </ul>	Mangrove studies	Monitoring and evaluation	Monitoring and evaluation	DENR	Research groups, NGO	Monitoring reports
<ul style="list-style-type: none"> <li>Involve government and NGOs in the reforestation of abandoned fishponds and other mangrove areas</li> </ul>	Consultations, IEC, stakeholder involvement	Reforestation Trainings	Monitoring and evaluation	DENR	LGU, NGO	Project reports, trainings conducted
<ul style="list-style-type: none"> <li>To involve local communities in the reforestation of mangrove areas</li> </ul>	IEC	IEC and training	Monitoring and evaluation	DENR	NGO, LGU	Project reports, trainings conducted, IEC materials
<ul style="list-style-type: none"> <li>Expand mangrove forests</li> </ul>	Identify mangrove species, refo areas	Reforestation	Monitoring and evaluation	DENR	Research groups, NGO	Reforestation, reports
<ul style="list-style-type: none"> <li>Seek assistance from experts on mangrove rehabilitation and restoration</li> </ul>	TWG consultation	Studies	Monitoring and evaluation	DENR/ TWG	Research groups, NGOs	TWG proceedings/ reports
Mudflats						
<ul style="list-style-type: none"> <li>Abandon idea of restoring the real mudflats and sandflats</li> </ul>	Identify, study mudflats	Monitoring, assessment	Monitoring, evaluation	DENR	Research groups, NGOs	Studies, distribution reports, maps
Estuaries						
<ul style="list-style-type: none"> <li>Encourage aforest/ reforest estuaries but not to impede the flow</li> </ul>	Identify, study estuaries	IEC on estuaries, Refo training	Monitoring, evaluation	DENR	Research groups, NGOs	Studies on estuaries (dynamics), IEC, refo plan
<ul style="list-style-type: none"> <li>Information drive; increase awareness of coastal communities – importance of</li> </ul>	IEC	IEC	Monitoring, evaluation	DENR	NGOs, LGUs	IEC plan

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mudflats and estuaries						
<ul style="list-style-type: none"> <li>Remove/ regulate the construction of fish pens, fish cages and talaba culture along estuaries</li> </ul>	Policy, guidelines	Enforcement	Monitoring, enforcement	DENR/ BFAR, LGUs		Ordinance, policy
Seagrass						
<ul style="list-style-type: none"> <li>Enhance R and D for seagrass (basic and applied) particularly on economic valuation and cost benefit analysis and distribution and monitoring studies</li> </ul>	Studies	Studies	Studies	DENR	Research groups	Seagrass studies, reports
<ul style="list-style-type: none"> <li>Conserve and protect seagrass to maintain the population of dugong and other associated wildlife species dependent on seagrass</li> </ul>	IEC plan	IEC, study dugong populations	Monitoring, enforcement	DENR	Research groups, NGO, LGU	Dugong population studies, reports
<ul style="list-style-type: none"> <li>Climate Change: High carbon sequestration of seagrass (thus the need to protect in light of CC)</li> </ul>	Studies on Climate Change and seagrass	Studies on Climate Change and seagrass	Studies on Climate Change and seagrass	DENR	Research groups	Reports
<ul style="list-style-type: none"> <li>Ensure a functional coordination among concerned agencies</li> </ul>	Consultations and meetings	Reporting, coordination	Mechanism for reporting monitoring projects	DENR	Research groups, NGO	Reporting and coordination system
<ul style="list-style-type: none"> <li>Increase the content of seagrass information repositories and online electronic information on seagrass</li> </ul>	Create database	Update database	Update database	DENR	Research groups, NGOs	Database
<ul style="list-style-type: none"> <li>Form partnerships among governmental organizations at international, regional, national and local levels, and between them and the private sector</li> </ul>	IEC	IEC, stakeholder involvement	IEC, monitoring	DENR, National government	NGOs, stakeholders	Partnerships fostered
Coral Reefs						
<ul style="list-style-type: none"> <li>Reduce pollution and sedimentation</li> </ul>	Identify sources of pollution, id	Implement projects, IEC	Monitoring, assessment	DENR	LGU	Monitoring report

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	projects and programs					
• Rehabilitation of ecosystem continuum (upland to marine)	Management Plan	Implement management plan	Monitoring, evaluation	DENR, BFAR	Research groups, NGO, LGU	Rehabilitation plan
• Continue restoration efforts	Identify, replicate best practices	Implement, enforce	Monitoring, evaluation	DENR	Research groups, NGO, LGU	Reports
• Replication technology on appropriate coral propagation/ planting	Studies on coral propagation	Identify, replicate best practices	Monitoring, evaluation	DENR	Research groups	Best practices reports, studies
• Study carry capacity of coral reefs	Studies on carrying capacity	Studies on carrying capacity	Include in management plans	DENR	Research groups	Reports
• Study spawning season of reef fishes (to recommend close and open fishing seasons)	Studies on carrying capacity	Studies on carrying capacity	Include in management plans	BFAR	Research groups	Reports
• Appropriate docking ports to minimize effects on corals	Appropriate engineering plan		Monitoring, evaluation	LGU	DPWH, DENR, Research groups	
• Educate tourists	IEC	IEC	Monitoring and evaluation	DOT, DENR	LGU, NGOs	IEC strategy
<b>Management of Wetlands</b>						
Policies on easements and buffers						
• Address buffer issues (at least 200 meters; apply to new projects)	Review issues on buffers	Identify gaps, Implement buffer zones	Monitoring, enforcement	DENR	LGU	Reviewed zoning
• Review easement policies	Review easement policies	Identify gaps, Implement	Monitoring, enforcement	DENR, HLURB	LGU	Reviewed easement policies
• Don't build permanent structures	Review Land	Implement	Monitoring,	DENR, HLURB	LGU	Reviewed land use plan

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behind coastal forests	Use Plan	land use plan	enforcement			
NIPAS sites						
<ul style="list-style-type: none"> <li>Implement new IRR on Protected Areas</li> </ul>	IEC and coordinate	Implement IRR	Monitoring, enforcement	DENR, PAMB	LGUs, NGO	Monitoring reports
<ul style="list-style-type: none"> <li>Development of management plans; develop management plan per site</li> </ul>	Consultation, develop management plan	Implement action plans and projects	Monitoring, enforcement	DENR, PAMB	LGUs, NGO	Management plan, Action plan
<ul style="list-style-type: none"> <li>Implement management plan</li> </ul>	Identify action gaps and projects	Implement projects;	Stakeholder involvement, monitoring, enforcement	DENR, PAMB	LGUs, NGO	Management plan and progress report
<ul style="list-style-type: none"> <li>Strengthen institutional support</li> </ul>	Capacity needs assessment	Capacity building	Fundraising	DENR, PAMB	NGO	
Rehabilitation and Reforestation in wetlands						
<ul style="list-style-type: none"> <li>Change protocol in rehabilitation/ restoration of mangroves</li> </ul>	Review protocol, studies on restoration	IEC, Training	Monitoring, Evaluation	DENR	Research groups	Updated protocols
<ul style="list-style-type: none"> <li>Study choice of species and location of reforestation site (use species present at location to maintain healthy biodiversity)</li> </ul>	Study species, area suitability for refo	IEC and training	Monitoring, evaluation	DENR	Research groups, NGOs	Species, area descriptions
<ul style="list-style-type: none"> <li>Refrain from planting in barnacle-infested location Establish mangrove nurseries</li> </ul>	Study species, area suitability for refo	IEC and training	Monitoring, evaluation	DENR	Research groups, NGO	Species, area descriptions
<ul style="list-style-type: none"> <li>Reforest in beach forests not only confined in mangroves</li> </ul>	Study species, area suitability for refo	IEC and training	Monitoring, evaluation	DENR	Research groups, NGO, LGU	Species, area descriptions

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Research and Development						
<ul style="list-style-type: none"> <li>Study carrying capacity especially of small islands</li> </ul>	Studies on carrying capacity	Studies on carrying capacity	Include in management plans	DENR	Research groups, NGO	Reports
<ul style="list-style-type: none"> <li>Know structure, volume and composition in wetland sites to convince people of the value of wetlands (include other ecological services)</li> </ul>	Studies on wetlands, resources, benefits	IEC	IEC, update sources	DENR	Research groups, NGO	Reports
<ul style="list-style-type: none"> <li>Periodic monitoring and inventory of resources</li> </ul>	Inventory of species	Monitoring, assessment	Monitoring, assessment	DENR	Research groups, NGO	
Tourism						
<ul style="list-style-type: none"> <li>Coordinate with DOT</li> </ul>	Coordinations, meeting	TWG. experts	Guidelines	DENR, DOT	NGOs, experts	Partnership, guidelines
<ul style="list-style-type: none"> <li>Multi-sectoral involvement in ecotourism</li> </ul>	IEC	Consultations, meetings	Multi-sectoral involvement	DENR, DOT	NGOs, LGU	Multi-sectoral involvement
<ul style="list-style-type: none"> <li>Utilize wetlands as source of livelihood</li> </ul>	Studies on wetland resources	Social acceptability studies	Identify sources of alternative livelihood	DENR	Research groups	Reports
<ul style="list-style-type: none"> <li>Develop wetlands to enhance ecotourism</li> </ul>	Identify wetlands for ecotourism, economic valuations studies	Management plan to include protection and conservation	Enforcement, monitoring	DENR, DOT	Stakeholders, NGO, LGU	Reports, management plans
<ul style="list-style-type: none"> <li>Follow appropriate protocols and policies on ecotourism</li> </ul>	Review protocols	IEC, training	Enforcement, monitoring	DENR, DOT	LGUs, PNP	Reports
<ul style="list-style-type: none"> <li>Information dissemination to stakeholders (including tourists)</li> </ul>	IEC	IEC, training	Enforcement, monitoring	DENR, DOT	LGUs, NGO	Reports
<ul style="list-style-type: none"> <li>Involving local people directly and indirectly in tourism benefits</li> </ul>	Social acceptability	IEC and training	Monitoring	DENR, DOT	LGUs, NGO	Reports

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	studies					
• Extensive on-going training for local guides	Capacity needs assessment	IEC and training	Monitoring	DENR, DOT	LGUs, NGO	Reports
Aquaculture (marine ecosystem)						
• Establish mechanism/ policy on reverting fishponds to mangrove areas	Review fishponds	Establish mechanism, policy	Implement, enforce, monitor	DENR, BFAR	LGUs, expert group	Reports
• Classify abandoned fishponds	Identify fishponds	Establish classification system	Enforcement, monitoring	BFAR, DENR	LGUs	Reports, classification system
• Cancel ownership of fishponds then let the community take over	Identify fishponds, owners	Cancellation of ownership	Turn-over, monitoring	BFAR, DENR	LGU	Reports, lists
• Promote aquasilviculture; promote appropriate aquaculture technology in the community	Studies on aquaculture technology	Training	Monitoring, evaluation	DENR, BFAR	Research groups, NGO	Reports
Management of Wetlands (General)						
International Conventions						
• Assessment of other areas qualified for RAMSAR	Inventory, assess wetlands	Assessment	Inclusion to RAMSAR sites list	DENR	NGO	Additional RAMSAR sites, wetlands inventory
• More efforts on implementing wetland management guidelines	Review wetland management guidelines	Implement guidelines	Enforcement, monitoring	DENR, BFAR	LGU, PNP	Reviewed, updated guidelines
• Take into consideration CMS actions in selecting RAMSAR sites	Review CMS, Ramsar criteria	Identify wetlands with CMS, RAMSAR criteria	Nominate for inclusion	DENR	Research groups, NGO	Updated criteria

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Management Approach to Wetlands:						
• Localized approach to management	Include wetland management in plans	Training, capacitate LGU	LGU involvement	LGU	DENR, NGOs	Wise use of wetlands included in CLUP, PCLUP.
• Community based , participatory approach	IEC	Training, capacitate communities	IEC, Community involvement programs	NGO	DENR, LGU	Progress reports
• Develop management plan	Consultations	Develop management plans	Implement, monitoring	DENR	NGOs, LGUs, stakeholders	Management plan
• Harmonize and coordinate efforts	Consultations	Reporting mechanism	Monitoring, evaluation	DENR	NGO, research groups, LGU	Progress, monitoring reports
• Capacitate site managers to effect the management and conservation plans	Capacity needs assessment	Training, capacity building	Monitoring, evaluation	NGO, DENR	LGU	Trainings, reports
<b>General Recommendations</b>						
Develop a management plan	Consultations	Develop management plans	Implement, monitoring	DENR	NGOs, LGUs, stakeholders	Management plan
Implement policies and recommended interventions	Review wetland management guidelines	Implement guidelines	Enforcement, monitoring	DENR, BFAR	LGU, PNP	Reviewed, updated guidelines
Increase community participation and involvement in coastal and marine wetland management	IEC	Training, capacitate communities	IEC, Community involvement programs	NGO	DENR, LGU	Progress reports
Capacitate stakeholders (communities, POs, LGUs)	Capacity needs assessment	Training, capacity building	Monitoring, evaluation	NGO, DENR	LGU	Trainings, reports

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Intensify Research and Development (site based, wetland type) for inventory and/or updating of resources and monitoring	Identify research gaps	Monitoring, assessment studies, updates	Strengthen R and D, funding	Research groups, DENR Funding sources	NGOs	Publications, reports Updated information
Sustain national resource inventory/assessment of coastal and marine wetlands	List of previous, current researches conducted	Training and further research	Report publication, localize outputs	Funding sources, DENR	Research groups, NGOs	Updated list of reports, projects, etc.
Coordinate efforts among agencies and organizations	Consultations	Reporting mechanism	Monitoring, evaluation	DENR	NGO, research groups, LGU	Progress, monitoring reports
Update and distribute the directory of wetlands to assist in monitoring the country's wetlands	Review wetlands directory	Disseminate and constantly update	Monitoring, assessment of wetlands sites	DENR	NGOs, research groups, LGUs	Wetlands directory (updated)
Remote Sensing and GIS technologies as tools to identify wetlands (Groundtruthing needed)	Training,	Produce map of wetlands (distribution, assessment)	Monitor, assessment, groundtruthing	DENR, NAMRIA	NGOs, research groups	Updated maps
Create database/ library of information and documents on coastal and marine wetlands	Create database	Update database	Update database	DENR	Research groups, NGOs	Database
Continue and strengthen partnerships (among agencies, local government units, NGOs, POs, academe)	IEC, forge partnerships	Implement projects among stakeholders	Foster partnerships	DENR, NGO	Stakeholders, LGUs	Partnerships

**Time Frame:** 5-10 years

**Funding Sources:** GTZ sites, international fundings, LGU, explore other sources

**Responsible Agencies/ Organization:** DENR-PAWB, ERDB, NAMRIA, LGUs, NGOs, POs, academe, research centers

**NWAP:** National Wetlands Action Plan