



# The ASEAN Biodiversity Information Sharing Service





**AMS CHM Websites**

- Brunei Darussalam
- Cambodia
- Lao PDR
- Indonesia
- Malaysia
- Myanmar
- Philippines
- Singapore
- Thailand
- Viet Nam

- Biodiversity in the ASEAN Region
- Priority Areas for Conservation
- Biodiversity Conservation Initiatives
- Improving Capacities for Biodiversity Conservation
- Who's Who In ASEAN Biodiversity
- Biodiversity Resources
- Glossary of Terms
- Photo Gallery

- ASEAN Biodiversity Assessment**
- Ecosystems
  - Drivers of Biodiversity Loss in the ASEAN Region
  - Regional Analyses



# Objectives

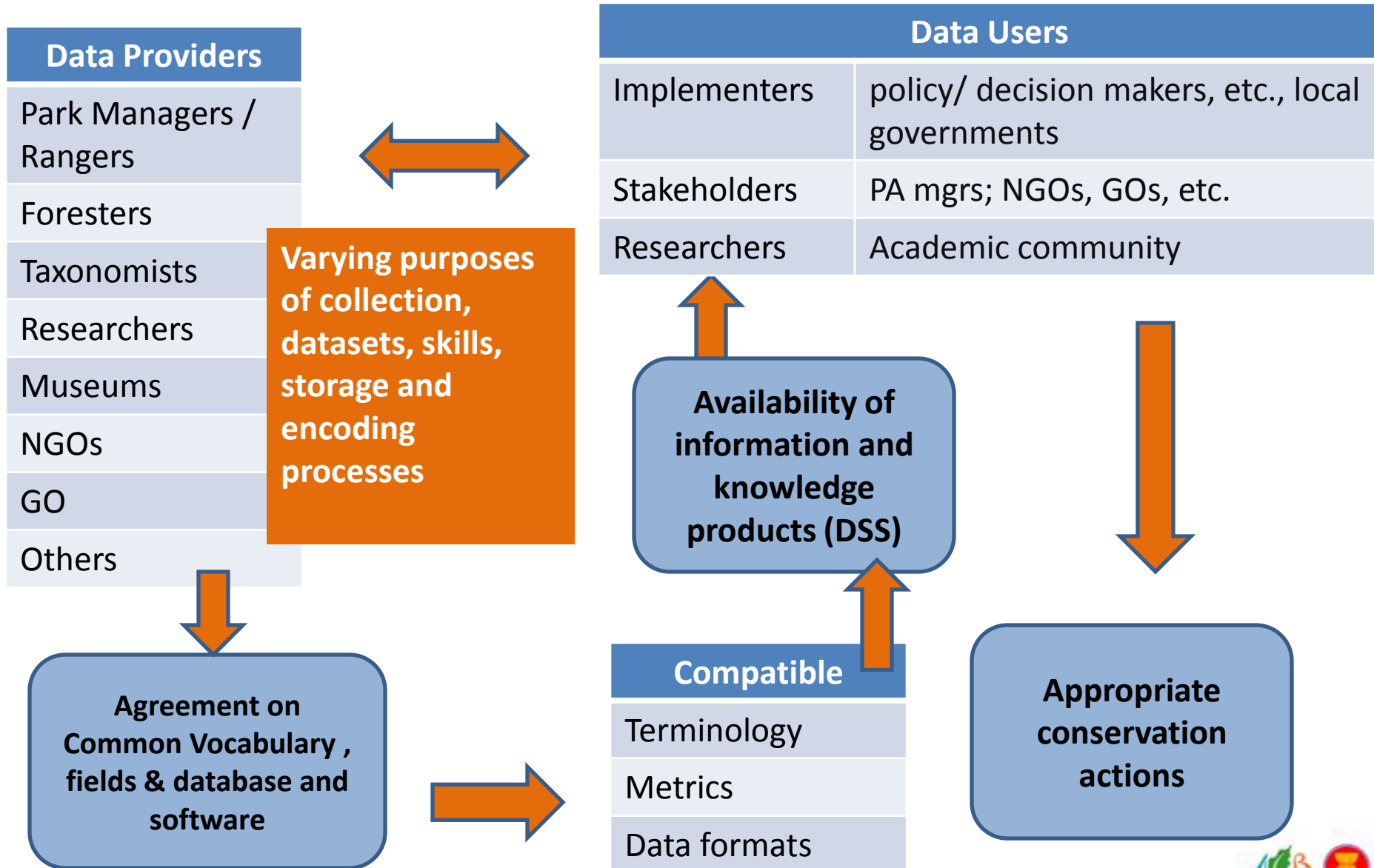
- Integrate available information
  - From Clearing House Mechanisms
  - From global databases
  - Species information
  - Protected areas information
- To develop an ASEAN biodiversity perspective to provide feedback to ASEAN Member States on:
  - Conservation Strategies
  - Policy
  - MEA Compliance

# How?

- **Adhere to internationally accepted standards (e.g. taxonomic classification, maps, level of resolution)**
  - Adopt a common database architecture
  - Use compatible organism names and habitat classifications
  - Use of common and easily accessible tools (free ware)
  - Use of map resolutions consistent with policy needs (e.g. PA delineation)
- **Agree to share data ( through certain guidelines, mobilize commitments)**
  - Organize into a community of collaborators and have operational agreements for data contribution, use & access, updating, populating, KM products, etc
  - Agree to common objectives and methods (for PA ID and selection, KBAs, etc.)
  - Use information for “good” things only to earn the trust of collaborators
  - Share info by using readily available online and offline databases
  - Integrate common structures in National Clearing House Mechanisms (CHMs)

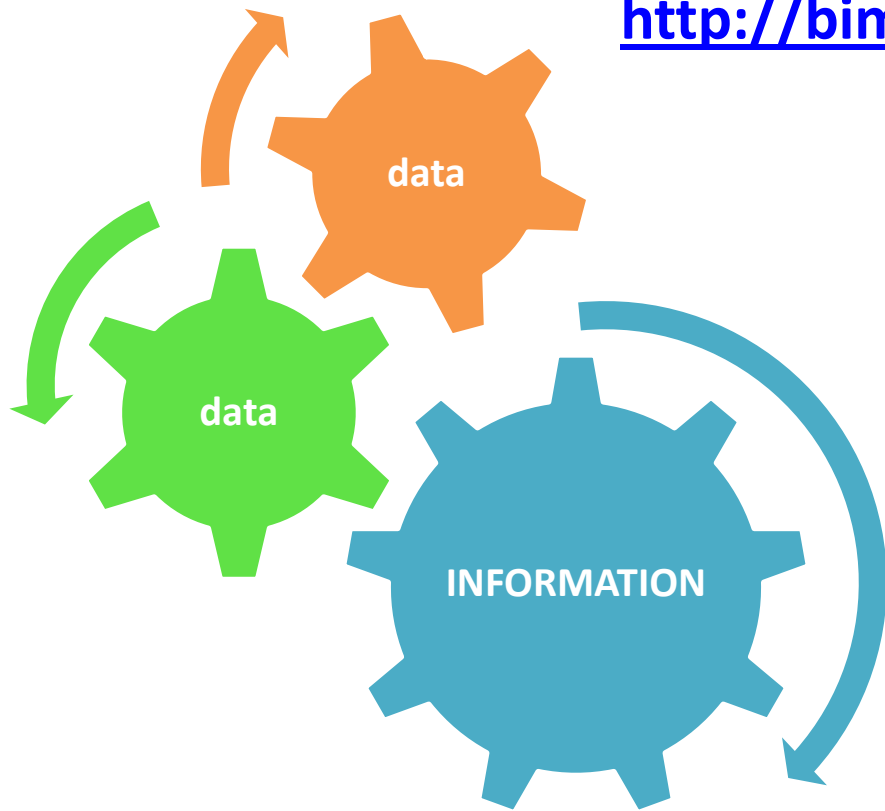


# Data Interoperability Framework



# Species and PA Databases: Improving data storage and access decision making and policy for the ASEAN Region

<http://bim.aseanbiodiversity.org/rde/PHrde/>



➤ **ENCODER'S DASHBOARD**

➤ **Species Encoder**

➤ **Protected Areas Encoder**

Prepared for the use of ASEAN Member States for  
encoding data to their Clearing House Mechanisms

# Species Database Case Study: The Philippines CHM (Ongoing)

## SPECIES DATABASE PHILIPPINES

Hello, PAWB Encoder

Species List | Generate Reports | Advanced Search | Vocabularies | Users

Logout

### LIST OF ALL SPECIES RECORDS

Records in Database: **2685**

Records **1 - 10** of **2685** **1** of **269**

Scientific Name (Author)	Country	IUCN Redlist Status	Synonyms	Common Names	Localities
<i>Aptos ciliata</i> (Wilson, 1925)	PH	Not Evaluated	<input type="button" value="Manage Synonyms"/>	<input type="button" value="Manage Common Names"/>	<input type="button" value="Manage Localities"/>
<i>Abathesca Pellum fissum</i> (Hoek, 1907)	PH		<input type="button" value="Manage Synonyms"/>	<input type="button" value="Manage Common Names"/>	<input type="button" value="Manage Localities"/>
<i>Abditomys latidens</i> (Sanborn, 1952)	PH	Data Deficient	<input type="button" value="Manage Synonyms"/>	<input type="button" value="Manage Common Names"/>	<input type="button" value="Manage Localities"/>
<i>Abdominea minimiflora</i> (Hook.f.)J.J.Sm.	PH	Not evaluated	<input type="button" value="Manage Synonyms"/>	<input type="button" value="Manage Common Names"/>	<input type="button" value="Manage Localities"/>
<i>Abdulmajidia maxwelliana</i> Whitm.	PH	Vulnerable	<input type="button" value="Manage Synonyms"/>	<input type="button" value="Manage Common Names"/>	<input type="button" value="Manage Localities"/>
<i>Acanthanas pusillus</i> Anker, Poddoubtchenko & Jeng, 2006	PH		<input type="button" value="Manage Synonyms"/>	<input type="button" value="Manage Common Names"/>	<input type="button" value="Manage Localities"/>
<i>Acanthastrea lordhowensis</i> Veron & Pichon, 1982	PH		<input type="button" value="Manage Synonyms"/>	<input type="button" value="Manage Common Names"/>	<input type="button" value="Manage Localities"/>
<i>Acanthastrea rotundiflora</i> Chevalier, 1975	PH		<input type="button" value="Manage Synonyms"/>	<input type="button" value="Manage Common Names"/>	<input type="button" value="Manage Localities"/>
<i>Acanthodesia savarti</i> Savigny-Audouin, 1826	PH		<input type="button" value="Manage Synonyms"/>	<input type="button" value="Manage Common Names"/>	<input type="button" value="Manage Localities"/>
<i>Acasta alcyonica</i> Rosell, 1991	PH		<input type="button" value="Manage Synonyms"/>	<input type="button" value="Manage Common Names"/>	<input type="button" value="Manage Localities"/>



# Species Database Case Study: The Philippines CHM (Ongoing)

## SPECIES DATABASE PHILIPPINES

Hello, PAWB Encoder

[Species List](#)

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Record 2077 of 2685



**Abdulmajidia maxwelliana**



**Country**

**Classification**

**Taxonomy**

**Record Level**

**Growth Parameters**

**Collecting Event**

**Synonyms**

**Common Names**

**Localities**

**Images**

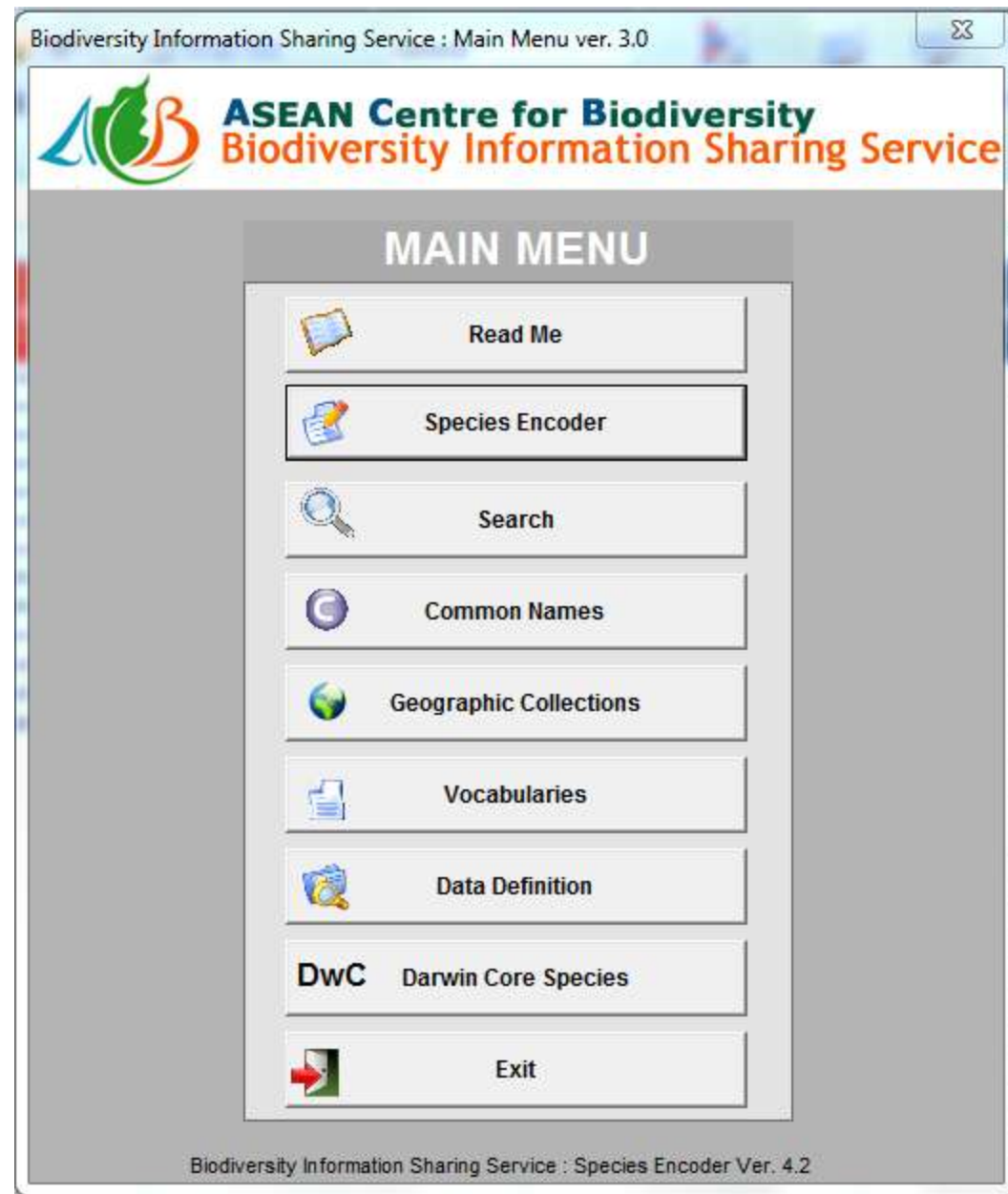
<b>Country</b>	Philippines
<b>Continent Ocean</b>	Asia

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# Offline Species Database Version

- Provides ease in data entry, no additional software necessary
- Required fields assures compatibility of minimum dataset
- Accompanied by field descriptions
- orientation to partners, prospective partners, academic institutions, NGOs provided





## SPECIES ENCODER FORM

Taxon ID

2

Country Code

TL

\*

Continent Ocean

Asia

\*

Search

Main Menu

Classifications | Taxon | Record Level | Growth Parameters | Collecting Event | Common Names | Synonyms | Locality | Images

Basis Of Record

Unknown

\*

Observer

Collector Number

Field Number

Collector

Start Year Collected

e.g. YYYY

Start Month Collected

e.g. 01...12

Start Day Collected

e.g. 01...31

End Year Collected

e.g. YYYY

End Month Collected

e.g. 01...12

End Day Collected

e.g. 01...31

Year Collected

Month Collected

Day Collected

Julian Day

Start Julian Day

End Julian Day

Time Of Day

Start Time Of Day

End Time Of Day

Time Zone

e.g. YYYY

e.g. 01...12

e.g. 01...31

e.g. 1...365

e.g. 1...365

e.g. 1...365

e.g. 13.5 = 1:30pm

e.g. 13.5 = 1:30pm

e.g. 13.5 = 1:30pm

e.g. +hh:mm or -hh:mm



## Search

### TAXONOMIC TREE

- Animalia**
  - Phylum Acoelomorpha
  - Phylum Annelida
  - Phylum Arthropoda
  - Phylum Chordata
  - Phylum Cnidaria
  - Phylum Echinodermata
  - Phylum Mollusca
  - Phylum Nemata
  - Phylum Platyhelminthes
  - Phylum Porifera
- Plantae**
  - Phylum Anthocerotophyta
  - Phylum Bacillariophyta
  - Phylum Bryophyta
  - Phylum Crenarchaeota
  - Phylum Cycadophyta
  - Phylum Euryarchaeota
  - Phylum Gnetophyta
  - Phylum Magnoliophyta
  - Phylum Marchantiophyta
  - Phylum Pinophyta
  - Phylum Rhodophyta
- Archaea**
- Bacteria**
- Chromista**
- Fungi**
- Protozoa**
- Viruses**





# Standard Outputs - Species

- Species Name
- Description
- Distribution
- Photos where available
- Common names
- Red List Status
- Other information

Species available in Philippines

- Animalia
  - Phylum Arthropoda (413)
  - Phylum Chordata (578)
    - Class Actinopterygii (1)
    - Class Amphibia (100)
    - Class Aves (457)
    - Class Mammalia (180)
    - Class Reptilia (142)
      - Order Crocodylia (2)
      - Order Squamata (132)
        - Order Testudines (5)
          - Family Cheloniidae (4)
            - Genus Caretta (1)
            - Genus Eretmochelys (1)
            - Genus Lepidochelys (1)
            - Genus Chelonia (1)
              - Chelonia mydas
    - Family Geomydidae (2)
    - Family Trionychidae (2)
  - Class Chondrichthyes (5)
  - Phylum Mollusca (7)
- Plantae



*Chelonia mydas*

Green Sea Turtle (*Chelonia mydas* - ARIOve)

**1. Taxonomy**

- Classification: Animalia (COU) | Chordata (COU) | Reptilia (COU) | Testudines (COU) | Cheloniidae (COU) | Chelonia (COU)
- Taxonomic Group: Reptiles
- Synonymy: Testudo mydas (Linnaeus, 1758) (*Chelonia mydas* - IUCN Red List of Threatened Species 2010 v2)
- Common name: Green Turtle (*Chelonia mydas* - IUCN Red List of Threatened Species 2010 v2)

**2. Assessment**

- IUCN Red List Status: Endangered

**3. Physical Characteristics**

- Size / Weight / Age: carapace length: 75 - 91 cm (See Turtle Conservancy) 135 - 180 kg (See Turtle Conservancy)

**4. Distribution and Habitat**

- Environment: Mainly stay near the coastline and around islands and live in bays and protected shores, especially in areas with seagrass beds. Rarely are they observed in the open ocean (See Turtle Conservancy). (*Chelonia mydas* - See Turtle Conservancy)
- Climate / Range: Oceans, as well as in smaller seas such as the Arabian Gulf and the Mediterranean Sea (*Chelonia mydas* - ARIOve Factsheet) (*Chelonia mydas* - ARIOve Factsheet)
- Distribution: Indonesia, Malaysia, Myanmar, Philippines, Thailand, Viet Nam (*Chelonia mydas* - IUCN Red List of Threatened Species 2010 v2)

**5. Other Information**

- Short Description: Green sea turtles are easily distinguished from other sea turtles because they have a single pair of prefrontal scales (scales in front of its eyes), rather than two pairs as found on other sea turtles. The head is small and blunt with a serrated jaw. Carapace is bony without ridges and has large, non-overlapping, scutes (scales) present with only 4 lateral scutes. Body is nearly oval and is more depressed (flattened) compared to Pacific green turtles. All flippers have 5 visible claws. The carapace color varies from pale to very dark green and plain to very brilliant yellow, brown and green tones with radiating stripes. The plastron varies from white, dirty white or yellowish in the Atlantic populations to dark grey-blue-green in the Pacific populations. Hatchlings are dark-brown or nearly black with a white undermask and white flipper margins (See Turtle Conservancy). (*Chelonia mydas* - See Turtle Conservancy)
- Biology: Green turtles have particularly slow growth rates and appear to take longer to become reproductively mature than any other sea turtle species, with age at sexual maturity ranging from 25 to 40 years. Undertaking tremendous feats of navigation, adults return to the same beach to breed each season. Mating tends to occur just offshore of the nesting beaches, using a curved claw on each front flipper and a flat tail at the end of the tail, males are able to grip their mates. Females haul out onto the beach at night and dig large nests with their back flippers beyond the high tide mark. They usually lay between 100 and 140 eggs in one nest and then proceed to cover the nest with sand. The

## IUCN Assessed Species Summary (Philippines)

	Endemic <sup>1</sup>	Native <sup>2</sup>	Threatened		
			Critically Endangered	Endangered	Vulnerable
Amphibians	80	99	1	15	32
Birds	178	451	13	11	37
Mammals	112	180	4	11	18
Reptiles	168	141	5	13	12
Butterflies	31	18	1	4	9
Molluscs	0	8	1	0	2
Freshwater Fishes	94	44	18	3	8
Marine Fishes	123	170	3	4	30
Plants	26	323	52	34	129

Source:

<sup>1</sup> Living National Treasures website, Living National Treasures: Philippines on 10 May 2010 at <http://lntreasures.com/philippines.html>

<sup>2</sup> Total Species assessed by IUCN as of 2010 [IUCN Redlist of Threatened Species]

\* for endemic, data available for vascular plants only

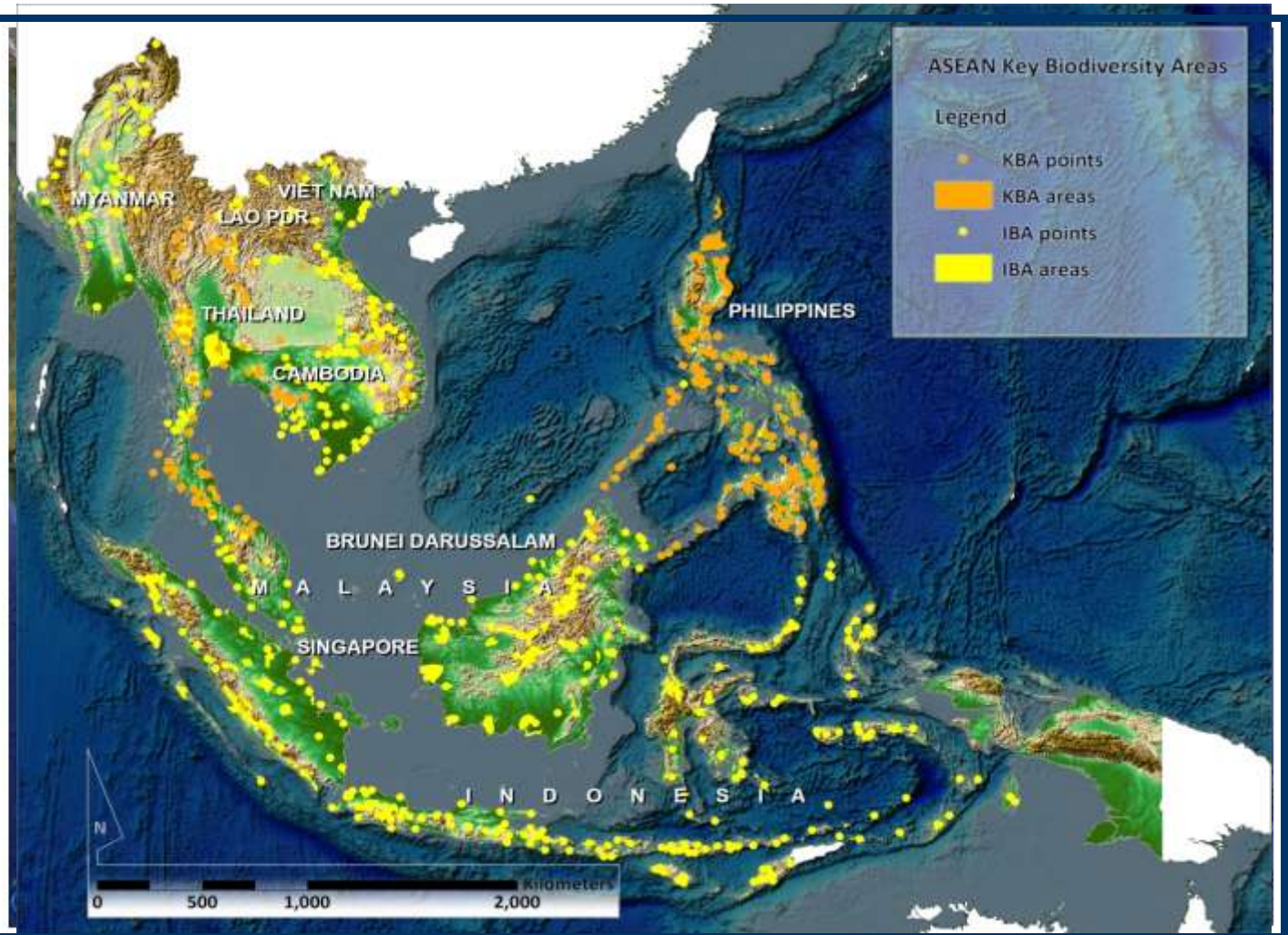


# Species Assessed

**Amphibians,  
Mammals  
and Plants  
Assessed**

**Critically  
Endangered  
Endangered  
Vulnerable  
species  
assessed**

**Key  
Biodiversity  
Areas  
Identified  
(KBAs + IBAs)**



# SEA Database on Protected Areas

- Based on IUCN WDPA framework
  - Developing SEA DPA
  - Can be overlaid on
    - IBAs
    - KBAs
- To determine gaps in habitat and ecosystem conservation



# Protected Areas Database (online)

<http://bim.aseanbiodiversity.org/rde/>

## PROTECTED AREAS DATABASE PHILIPPINES

Username :

Password :

Login

Reset

[Protected Areas List](#) | [Generate Reports](#) | [Advanced Search](#)

### LIST OF ALL PROTECTED AREAS RECORDS

Records in Database: 329

Search

Records 1 - 10 of 329

1 of 33



National Protected Area Name (Original NPA Name)	Country	Status	IUCN Category	National Designation
<a href="#">Abasig - Matogdon - Mananap</a> (Local name not known)	PH	Designated	VI	Natural Biotic Area
<a href="#">Agoo - Damortis</a> (Local name not known)	PH	Designated	V	Protected Landscape/Seascape
<a href="#">Agoo - Damortis Buffer Zone</a> (Local name not known)	PH	Designated	V	Protected Landscape/Seascape - Buffer Zone
<a href="#">Agusan Marsh</a> (Local name not known)	PH	Designated	IV	Wilderness Sanctuary
<a href="#">Aklan River</a> (Local name not known)	PH	Designated	VI	Watershed Forest Reserve
<a href="#">Alabat</a> (Local name not known)	PH	Designated	VI	Watershed Forest Reserve
<a href="#">Alang-alang</a> (Local name not known)	PH	Designated	Not Known	Marine Sanctuary
<a href="#">Alburquerque - Loay - Loboc</a> (Local name not known)	PH	Designated	V	Mangrove Forest Reserve
<a href="#">Aliguay</a> (Local name not known)	PH	Designated	V	Protected Landscape/Seascape
<a href="#">Aliguay Island Buffer Zone</a> (Local name not known)	PH	Designated	Not Known	Protected Landscape/Seascape - Buffer Zone

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## Apo Island

## Protected Area Details

## Protected Area Designations

## Protected Area Legislations

## Protected Area Map

<b>NPA Name</b>		Apo Island	
<b>Local NPA Name</b>		Local name not known	<b>Total Area</b> 78.7839 km <sup>2</sup>
<b>WDPA ID</b>	101399 <a href="#">↗</a>	<b>WDPA PID</b>	<b>Marine</b> Yes
<b>Country</b>		Philippines	<b>Marine Area</b> 74.2 km <sup>2</sup>
<b>Locality</b>			<b>Governance Type</b> Government Managed Protected Areas
<b>Longitude</b>		123.27°	<b>Biodiversity Value</b>
<b>Latitude</b>		9.07792°	<b>Threats</b>
<b>International Recognition</b>			<b>Management Authority</b>
<b>IUCN Category</b>		V	<b>Management Plan</b>
<b>Local Designation</b>		Local designation not known	<b>Description</b> Marine area is 74.2 ha. Area taken from 2005 source.
<b>Status</b>		Designated	
<b>Status Year</b>		1994	



## MAIN MENU



Read Me



Protected Area Encoder



Search



Protected Area Maps



Vocabularies



Data Definition



Exit

# Offline Protected Area Database



## NATIONAL PROTECTED AREA ENCODER FORM

ID NPA  Country Code  \*

Add Map Image

Search

Main Menu

National Protected Area Collections | Protected Area Maps

WDPA ID  \* e.g. 303060  
WDPA PID  e.g. 29827  
Country  \*  
Locality  \*  
NPA Name  \*  
Original NPA Name   
Longitude   
e.g. 125.29053642 or 123.29053642;  
125.29053642  
Latitude   
e.g. 6.94225571 or 6.94225571; 6.12345678  
International Criteria   
National Designation  \*  
Local Designation  \*  
Status  \*  
Status Year  \* e.g. yyyy

IUCN Category  \*  
Total Area  \* e.g. in km2  
Marine Area  \* e.g. in km2  
Marine  \*  
Governance Type  \*  
Description   
Biodiversity Value   
Threats   
Mgmt. Authority   
Mgmt. Plan   
Legislation

Note : \* Required fields



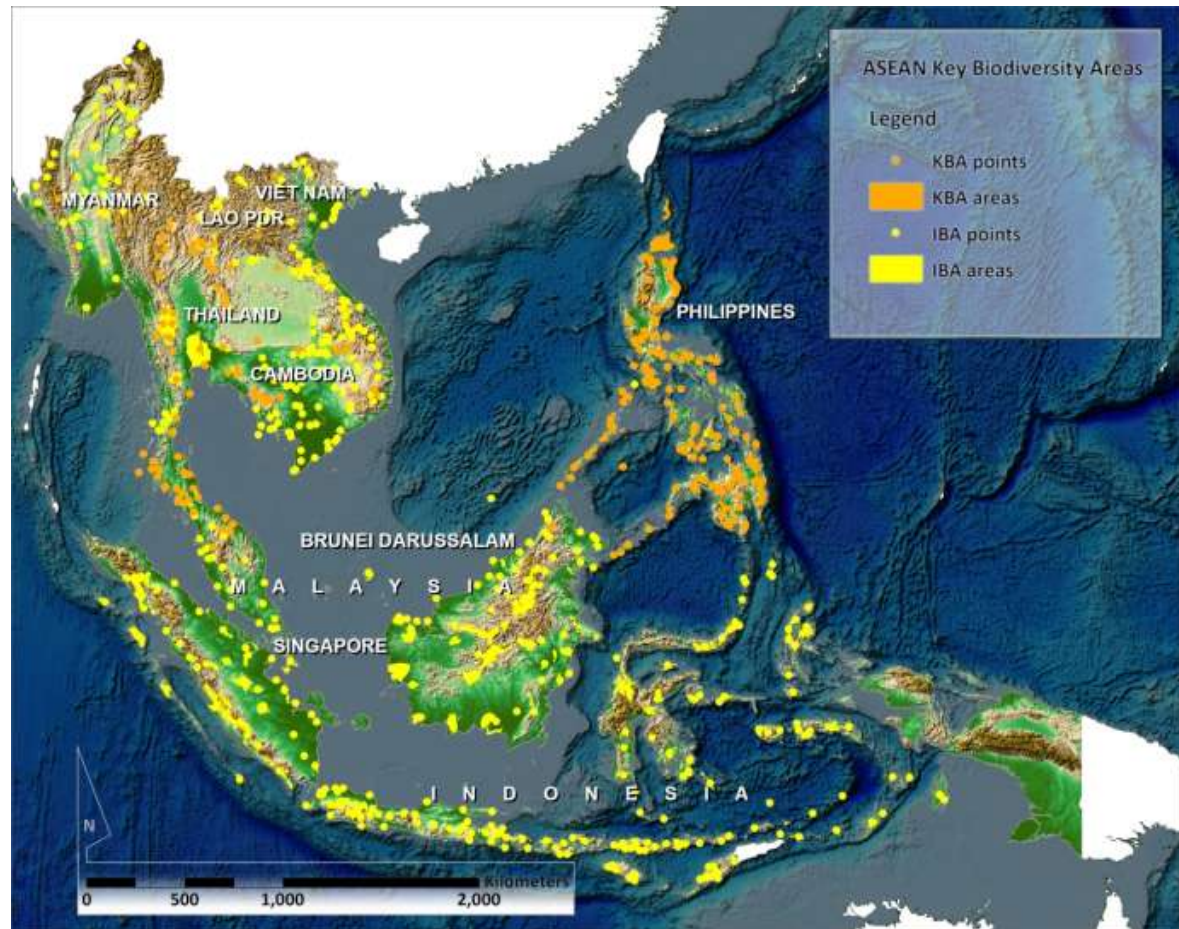
- Terrestrial protected areas
- Marine Protected Areas
- ASEAN Heritage Parks





# Priority Areas for Conservation

- IBAs
- EBAs
- KBAs



# Thematic Contents

- Links to CHMs of AMS
- Biodiversity in the ASEAN Region
- Priority Areas for Conservation
- Biodiversity Conservation Initiatives
- Improving Capacities for Biodiversity Conservation
- Who's Who in ASEAN Biodiversity
- Biodiversity Resources
- Glossary of Terms
- ABO
  - Ecosystems, Drivers, Regional Analyses



# Improving Capacities for Biodiversity Conservation

- Setting up CHMS
- Loading information in CHM sites
- Preparing MEA Reports (MEA encoder for 4NR and 5NR)
- Organizing Species and Protected Area Databases



# Who's Who in ASEAN Biodiversity

- Friends of Biodiversity Database
- AHP Managers
- Champions of Biodiversity Conservation
- Donors
- Focal Points
- Partners

## Biodiversity Resources

- E-library
- KM Products





# ASEAN Biodiversity Assessment

Ecosystems, Drivers of Biodiversity Loss in the ASEAN Region, Regional Analyses

