



# Biodiversity Information Management In Support to National Report Preparation

By:  
Ma. Consuelo D. Garcia  
Director, Biodiversity Information Management  
ASEAN Center for Biodiversity



# Outline:



- Guidelines for the Fourth National Reports and Information Requirements
- ACB's Biodiversity Information Management (BIM) in support to the Preparation of the Fourth National Report (4NR)
- Challenges, Related Ongoing Initiatives and Next Steps



# Guidelines for the Fourth National Reports



- Assess the progress towards the 2010 target
- Reflect the current status and trends in biodiversity and actions taken to implement the Convention at the national level and to consider as well as further efforts that still need to be done.
- Should enable the conference of the parties to:
  - Facilitate the decision-making process of the Convention
  - Identify gaps in and define future priorities for the programme of work of the Convention in order to ensure full implementation of the three objectives of the Convention
  - Facilitate the exchange of information among Parties concerning the experience of implementation of the Convention



# Guidelines for the Fourth National Reports



- **Report Structure**

- Executive Summary
- **Chapter I – Overview of Biodiversity Status, trends and threats**
- Chapter II – Current status of NBSAP
- Chapter II – Sectoral and cross-sectoral integration or mainstreaming of biodiversity considerations
- Chapter IV – Conclusions: progress towards the 2010 target and Implementation of the strategic plan
- Annex I – Information concerning reporting Party and preparation of national report
- Annex II – Further sources of information
- Annex III – Progress towards targets of the Global Strategy for Plant Conservation and Programme of Work on Protected Areas
- **Annex IV – information on national indicators (optional)**



# Guidelines for the Fourth National Reports



## Status and Trends of biodiversity :

Location: Where are the biodiversity resources?

Size/Trends: What are the size and trends of exploited biodiversity resources?

Products derived: How many products are derived from biodiversity sources that are sustainably managed (Target 4.1)?

Management: How much of the areas are managed consistent with the conservation of biodiversity (Target 4.1)?



**Data, information and indicators are needed to assess status and trends of biodiversity** (From BDI Workshop, Siem Reap , Cambodia)



# ASEAN Centre for Biodiversity

**ACB** will facilitate cooperation and coordination among ASEAN Member Countries, and with relevant national governments, regional and international organizations, on the conservation and sustainable use of biological diversity and the fair and equitable sharing of benefits arising from the use of such biodiversity in the ASEAN Region.





# ASEAN Centre for Biodiversity



## Technical Components

- Policy Development and Coordination
- Human and Institutional Capacity Building
- Public Awareness
- Digital Knowledge Management
- Networking and Partnership

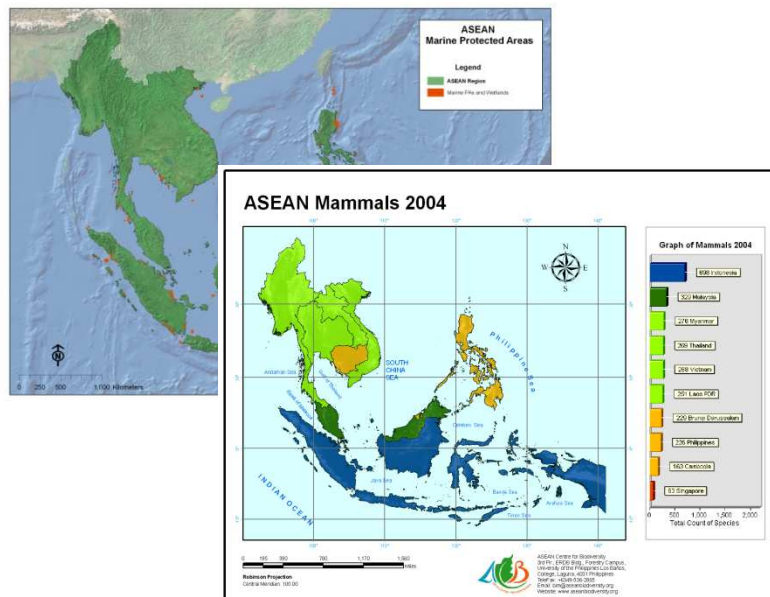


# ASEAN Centre for Biodiversity: Biodiversity Information Management Component



Biodiversity Information Sharing Service (BISS)

Clearing House Mechanism



Communities of Practice and Networks





# Biodiversity Information Management and 4NR



## ACB Activities

- ACB aims to strengthen the knowledge management capacity of the AMCs to assist them in their national reports to different Conventions or multilateral environment agreements (MEAs) including CBD.
- Some of ABC's BIM related activities include:
  - (1) Workshops on data and information sharing and harmonization
  - (2) National Consultation Workshops for the Preparation of the 4<sup>th</sup> National Reports
  - (3) Workshops on biodiversity indicators and Data Validation
  - (4) Regional CHM and the national CHMs
  - (5) Biodiversity Information Sharing (BISS)
  - (6) Framework and Networks for knowledge sharing



# Biodiversity Information Management and 4NR



## 1. Workshops on data and information sharing and harmonization

- ACB aims to promote digital knowledge management capacity among AMS and other stakeholders by harmonizing biodiversity data and information; strengthening knowledge sharing between and among AMS and ASEAN; and correcting gaps and shortcomings.
- ACB continued its work on harmonizing biodiversity data and information in the region through the conduct of the following sub-regional and regional workshops:
  - *Sub-regional Workshop on Mechanism for Biodiversity Data Sharing and Harmonization* (Hanoi, Viet Nam, 11-14 March 2008; Luang Prabang, Lao PDR, 9-11 June 2008).
  - *“Regional Technical Workshop on Mechanism for Biodiversity Information Sharing and Harmonization”* (Chiang Mai, Thailand, 23-28 November 2008)



# Biodiversity Information Management and 4NR



## 2. National Consultation Workshops for the Preparation of the 4<sup>th</sup> National Reports

- The AMS national workshops are envisioned to contribute largely to the ASEAN 2010 Biodiversity Assessment Report by identifying suitable indicators that ASEAN Member States (AMS) can relate to and which they have available information that they can share.
- Serve as venue for the AMS to consolidate their available information and to draft their country reports which is expected to be submitted in 2009 to the Secretariat of the CBD, as required. The national workshops would have a flexible approach in choosing the indicators based on their priorities, capabilities, and data availability apart from the set of minimum standard indicators identified in the Siem Reap, Cambodia workshop.



# Biodiversity Information Management and 4NR



## 3. Biodiversity Indicators

- An important tool for monitoring the status and trends of biodiversity at various levels and assesses progress at the global level towards the 2010 target and effectively communicates trends in biodiversity
- Biodiversity indicators listing is in “***Annex I – Provisional framework of goals, targets and indicators to assess the progress towards the 2010 Biodiversity Target***” of the Guidelines for the Fourth National Report



# Biodiversity Information Management and 4NR



## 3a. Workshops on biodiversity indicators

- Workshops on Biodiversity Indicators and Database Uses and Applications and BI Calculation, Interpretation and Communication  
Siem Reap, Cambodia, 25-27 August 2008 and  
Bangkok, Thailand, 18-20 November 2008
- These workshops are envisioned to contribute largely to the 4NR and ASEAN 2010 Biodiversity Assessment Report by identifying suitable indicators that ASEAN Member States (AMS) that are relevant and has available information that can be shared.





# Biodiversity Information Management and 4NR



## 3a. Biodiversity Indicators Analysis of the Cambodia WS for the ASEAN Region, according to country relevance.

Goals / Targets	Indicators	BR	KH	ID	LA	MY	PH	SG	TH	VN	MM	Total
<b>Goal 1. Promote the conservation of the biological diversity of ecosystems, habitats and biomes</b> <b>Target 1.1</b> At least 10% of the world's ecological regions effectively conserved	Surface area to total land area (Wetlands, terrestrial, marine PAs)	X		X	X	X	X	X	X	X		8
	Surface forest cover area protected	X		X	X	X	X	X	X	X		8
	total area	X		X	X	X		X	X	X		7
	% of forest PAs	X		X	X	X			X	X		6
	% of marine PAs	X		X		X	X		X			5
	No. of gazetted PAs effectively managed	X				X		X				3
	No. of rangers	X						X	X			3
	No. of Investments in PA	X							X			2
	Score card	X		X		X			x			4
	Quality of database	X				X						2



# Biodiversity Information Management and 4NR



## 3a. Biodiversity Indicators Analysis of the Cambodia WS for the ASEAN Region, according to country relevance.

Goals / Targets	Indicators	BR	KH	ID	LA	MY	PH	SG	TH	VN	MM	Total
<b>Target 1.2</b> Areas of particular importance to biodiversity protected	PAs designated as Ramsar Sites, Key Biodiversity Areas, Important Bird Areas, Man and Biosphere, World/ASEAN Heritage Sites sustainably managed	X		X	X		X	X	x	X		7
	No. of areas outside PAs sustainably managed			X	X	X	X					4
<b>Goal 2. Promote the conservation of species diversity</b>												
<b>Target 2.1</b> Restore, maintain or reduce the decline of populations of species of selected taxonomic groups	Ex-situ conservation program implemented: zoological / botanical gardens, etc	X		X		X	X	X	X	X		7
	In-situ conservation program implemented: Re-introduction, recovery, population	X		X		X	X	X	X	X		7
	Proportion of national flora in cultivation	X		X		X		X	X	X		6



# Biodiversity Information Management and 4NR



## Biodiversity Indicators Analysis of the Cambodia WS for the ASEAN Region, according to country relevance. (click link to view full document)

Goals / Targets	Indicators	BR	KH	ID	LA	MY	PH	SG	TH	VN	MM	Total
<b>Target 2.2</b> Status of threatened species improved	National list of threatened species (flora & fauna): Redbook, CITES appendix I	X		X	X	X	X	X	X	X		8
	Proportion of species threatened with extinction											
	IUCN Red List Index: Birds Only; Regional and National application under development	X		X	X	X		X	X	X		7
<b>Goal 3. Promote the conservation of genetic resources</b>												
<b>Target 3.1</b> Genetic diversity of crops, livestock and of harvested species of trees, fish and wildlife and other valuable species conserved, and associated indigenous and local knowledge maintained	Data on crops, livestock, etc.											
		X		X	X	X	X		X	X		7
	Laboratories: Germplasms, Genebanks	X		X		X	X	X	X	X		7
	Access & Benefit Sharing: Regulations (MTA, PIC), Plant variety certificates issued	X		X		X	X	X	X	X		7



# Biodiversity Information Management and 4NR



## 3b. Biodiversity Indicators Data Validation

- In 25-27 August 2008, the “*Regional Workshop on Biodiversity Indicators and Database Uses and their Applications*” was held in Siem Reap, Cambodia, the AMS agreed on the processes for assessing available data to be used in coming up with a set of national and regional biodiversity indicators.



# Biodiversity Information Management and 4NR



## 3b. Biodiversity Indicators Data Validation

- It was also agreed that ACB will handle the extraction of data from global databases and visit AMS to validate data and information availability and determine the value of information for national level use.





# Biodiversity Information Management and 4NR



## 4. Regional CHM: [chm.aseanbiodiversity.org](http://chm.aseanbiodiversity.org)

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ASEAN Biodiversity Gateway

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**Convention and Policy**

- Biodiversity and its Importance
- The 2010 Target for Biodiversity

**Cooperation**

- Technical Scientific Cooperation
- Technical Documents

**ASEAN CHM Collaborating Countries**

- Indonesia
- Malaysia
- Philippines
- Singapore
- Thailand

**Networks**

- Friends of Biodiversity
- Biodiversity KM Network
- ASEAN CHM NFP Network
- PALNet

**Information and Databases**

- Biodiversity Information Sharing Service (BISS)
- Biodiversity Indicators
- Biodiversity Data Profiles
- Red List

**Welcome to ASEAN's Biodiversity Gateway**

**ACB Celebrates Year 3**

The ASEAN Centre for Biodiversity (ACB) marks its third anniversary in September 2008 with greater efforts to engage more sectors and stakeholders in the quest to save the region's rich but highly threatened biodiversity.

The consensus to protect Southeast Asia's thinning natural treasures moved the ASEAN, with funding support from the European Union, to establish the ASEAN Regional Centre for Biodiversity Conservation (ARCBC) project. From 1999 to 2004, ARCBC facilitated collaboration among ASEAN Member States for biodiversity-related initiatives. A year later in 2005, the ASEAN and EU agreed to establish the ASEAN Centre for Biodiversity to carry on the work of the completed ARCBC project.

Acknowledged as the first regional initiative to save ASEAN's biodiversity, ACB is an intergovernmental regional centre of excellence tasked to facilitate cooperation and coordination among the members of ASEAN, and with relevant governments and institutions on the conservation and sustainable use of biological diversity, guided by fair and equitable sharing of benefits arising from the use of such biodiversity.

A major activity lined up for the Centre's anniversary month is the ASEAN-EU Ambassadors' Day on 30 September at the ACB Headquarters in Mount Makiling, Philippines. There will be a tree planting activity in line with the Green Wave campaign of the Secretariat of the Convention on Biological Diversity, premier showing of *Saving ASEAN's Natural Treasures* video documentary, and launch of ACB's redesigned Website and first issue of the *ASEAN Biodiversity Update* electronic newsletter. The occasion will provide an opportunity for heads of missions of EU and ASEAN Member States to discuss ways to further enhance international cooperation to conserve biodiversity in Southeast Asia.

**We are beta testing this website.**

**Upcoming Events**  
No events found.

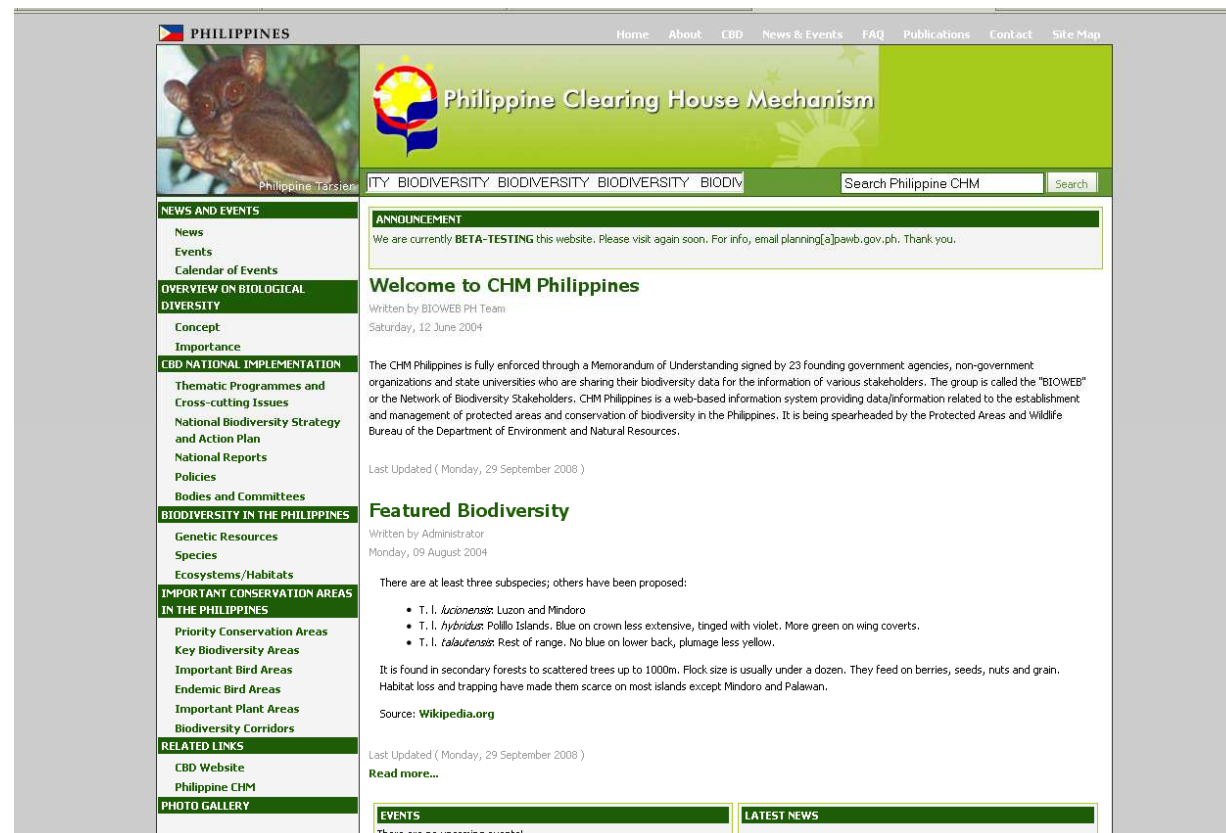
**The Green Wave**  
CBD  
2010 BIODIVERSITY TARGET  
ASEAN CENTRE FOR BIODIVERSITY



# Biodiversity Information Management and 4NR



National CHMs: <http://chm.pawb.gov.ph/>



- Ongoing discussions with Brunei, Cambodia, Lao PDR and Vietnam



## Biodiversity Gateway FOR SOUTHEAST ASIA



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### Convention and Policy

What is Biodiversity and Why is it Important?  
The 2010 Target for Biodiversity

### Cooperation

Technical Scientific Cooperation  
Technical Documents

### ASEAN CHM Collaborating Countries

Indonesia  
Malaysia  
Philippines  
Singapore  
Thailand

### Networks

Friends of Biodiversity  
Biodiversity KM Network  
ASEAN CHM NFP Network  
PALNet

### Information and Databases

#### ASEAN Database

Biodiversity Indicators  
Biodiversity Data Profiles  
Directories  
Documents  
Red List  
Biodiversity Projects  
Geo-referenced Biodiversity Data and Maps  
ASEAN Country Websites  
Multilateral Environment Agreements (MEAs)



The ASEAN PAs...

### Geo BISS Database



### Calendar of Events

Aug 2008						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Full Calendar

### ASEAN Red List



# Biodiversity Information Portal

<http://chm.aseanbiodiversity.org>



# Biodiversity Information Management and 4NR



## 4. Regional CHM and National CHMs

... CHM provides a common gateway to information; an enabling platform to link and share experiences among biodiversity stakeholders...

...and therefore assist countries in the planning, preparation, consolidation and discussion of strategic documents like the national reports, NBSAP and its implementation; and enhance the overall implementation phase of the Convention on Biological Diversity



# Biodiversity Information Management and 4NR



## 5. Biodiversity Information Sharing (BISS)

- Contains PA and species information some of which were originally linked to global data sources
- Currently being redesigned to be a dynamic and map-based platform
- Will be expanded to harmonize with the WDPA data structure

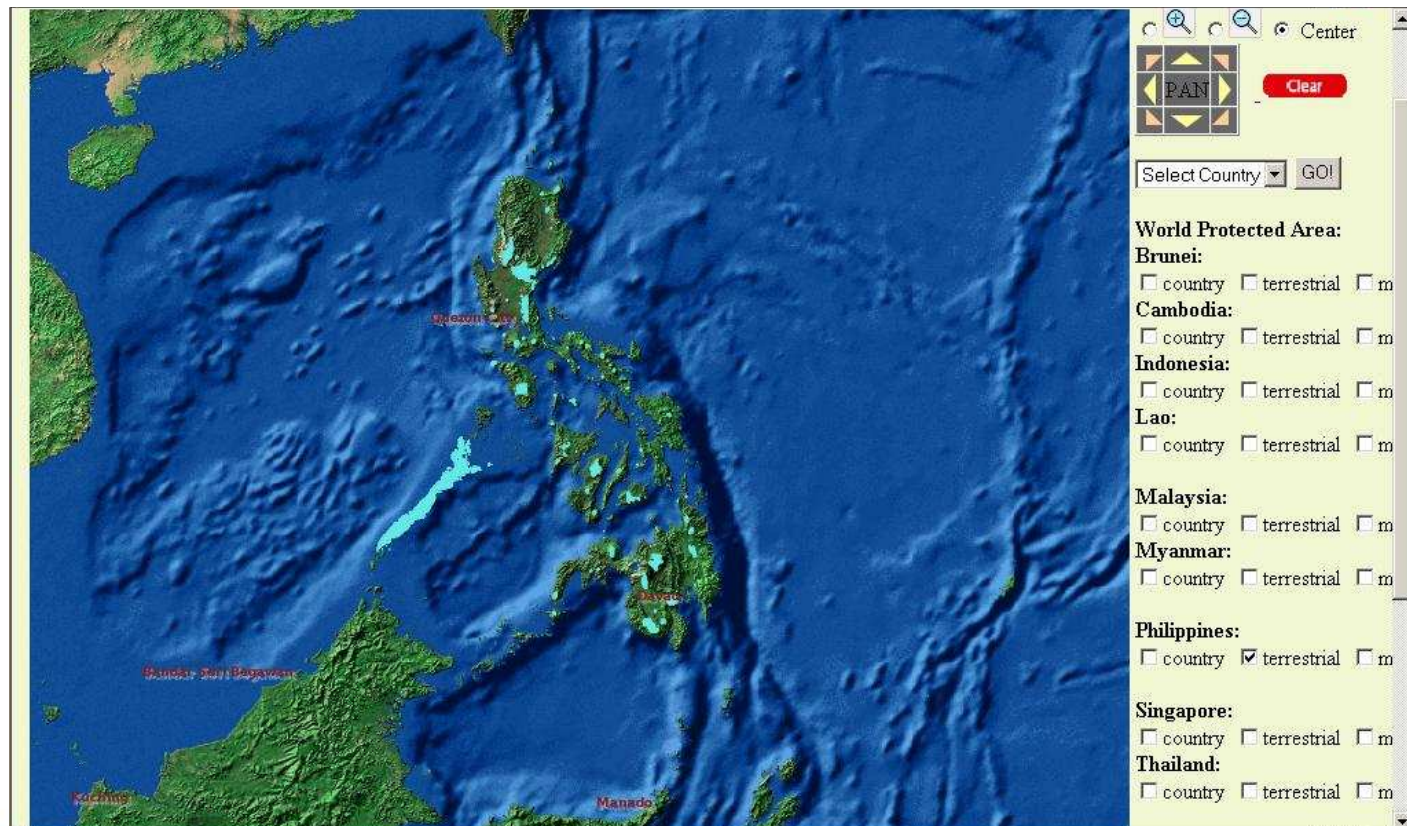




# Biodiversity Information Management and 4NR



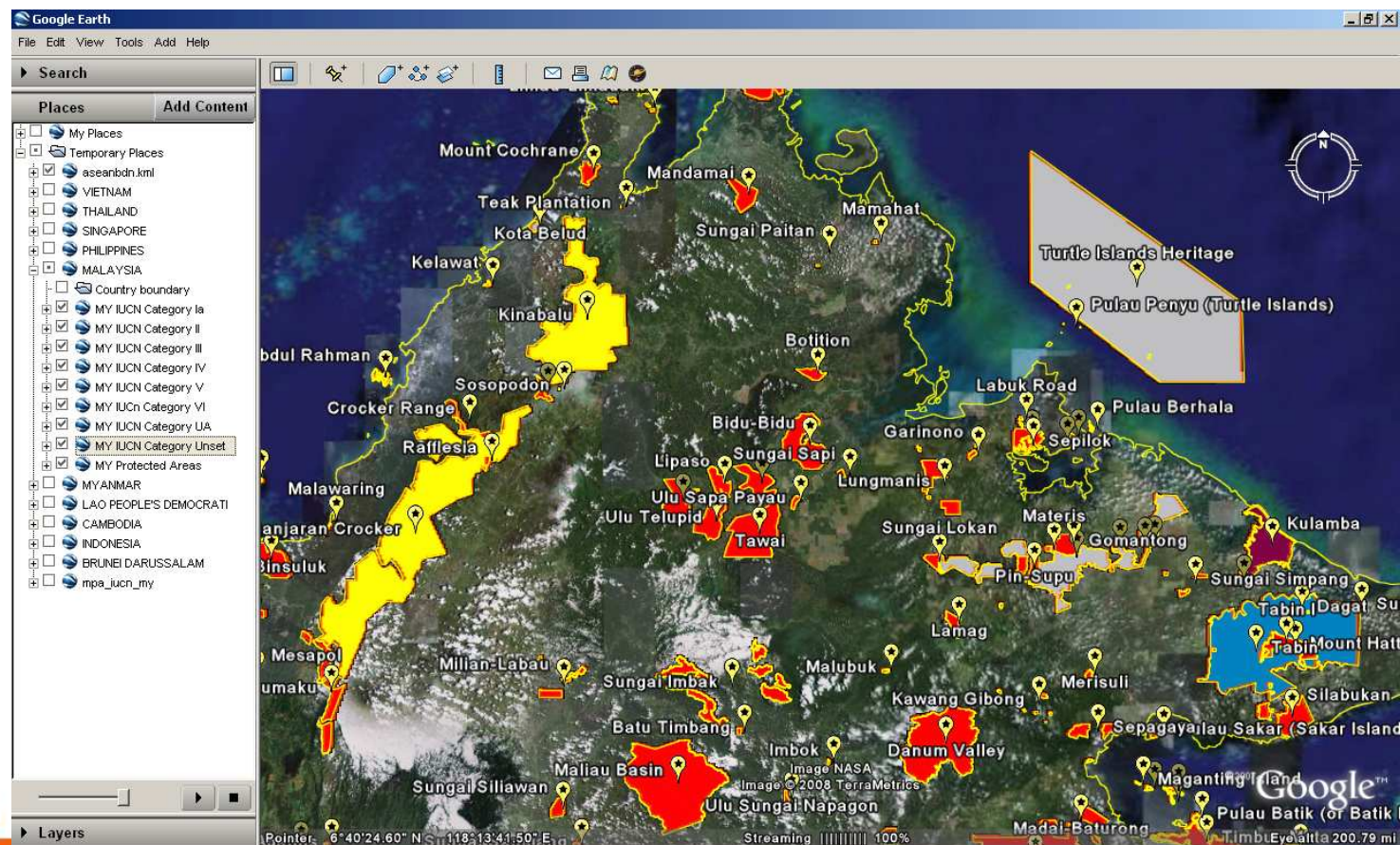
- Biodiversity Information Sharing (BISS)



# Biodiversity Information Management and 4NR



## Biodiversity Information Sharing (BISS)





# Biodiversity Information Management and 4NR



## Biodiversity Information Sharing (BISS)

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  - Country boundary
  - MY IUCN Category Ia
  - MY IUCN Category II
  - MY IUCN Category III
  - MY IUCN Category IV
  - MY IUCN Category V
  - MY IUCN Category VI
  - MY IUCN Category UA
  - MY IUCN Category Unset
  - MY Protected Areas
- MYANMAR
- LAO PEOPLE'S DEMOCRACY
- CAMBODIA
- INDONESIA
- BRUNEI DARUSSALAM
- mpa\_iucn\_my

Kinabalu

ISO3:	MYS
COUNTRY:	Malaysia
LON:	116.629877334
LAT:	6.19088304624
DESIGNATE:	National Park
IUCNCAT:	II
STATUS:	Designated
DESIG_ABBR:	NP
AREA_HA:	75370
NOTES:	Area calculated from GIS (2005 source). IUCN and est date provided by ASEAN (2004) data.
SOURCE:	Latest Info/GIS: GIS dataset provided by Diana Anthony, WWF-Malaysia - Borneo Prog. (Orig. source Sabah Forest Dept. 2004) & ASEAN Dataset supplied by ARCBC (dataset date 2004), April 2005.
ADDITIONAL:	
ADMIN:	Unset
MANAGEMENT:	Unset
OWNER:	Unset
MARINE:	N
MARINE_CLA:	
ESTABLISHE:	no data

Shape2Earth

Directions: [To here](#) - [From here](#)

Layers

6°15'08.97" N 116°38'46.99" E

Streaming 100%

Google



# Biodiversity Information Management and 4NR



## Biodiversity Information Sharing (BISS)



# Biodiversity Information Management and 4NR

## Biodiversity Information Sharing (BISS)

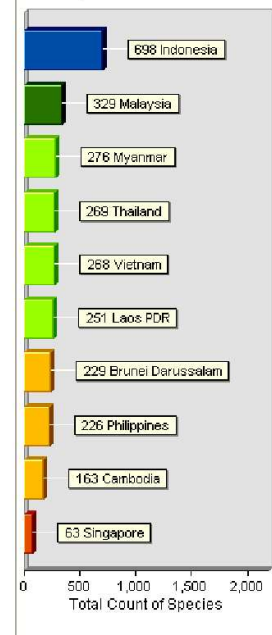


Total Species Count

### ASEAN Mammals 2004



#### Graph of Mammals 2004



ASEAN Centre for Biodiversity  
3rd Fl., ERDB Bldg., Forestry Campus,  
University of the Philippines Los Baños,  
College, Laguna, 4031 Philippines  
TeleFax: +6349-536-2865  
Email: [bim@aseanbiodiversity.org](mailto:bim@aseanbiodiversity.org)  
Website: [www.aseanbiodiversity.org](http://www.aseanbiodiversity.org)



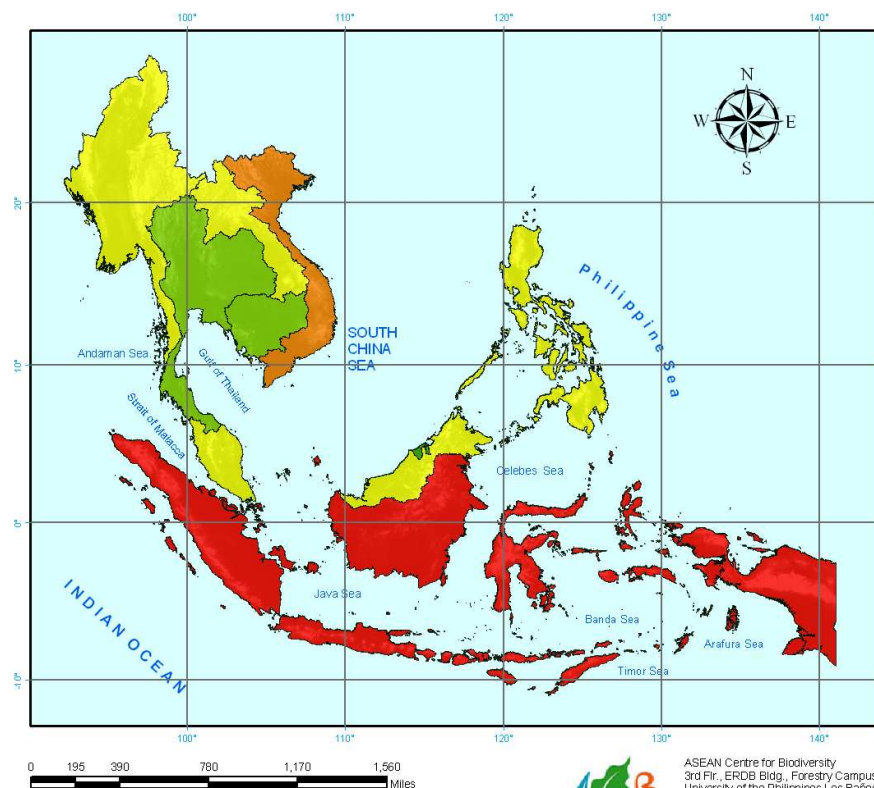
# Biodiversity Information Management and 4NR

## Biodiversity Information Sharing (BISS)

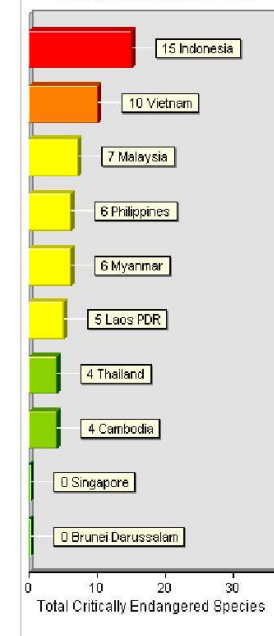


Total Critically Endangered Mammals

ASEAN Mammals 2004



Graph of Mammals 2004



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3rd Fl., EPOB Bldg., Forestry Campus,  
University of the Philippines Los Baños,  
College, Laguna, 4031 Philippines  
TeleFax: +6349-536-2865  
Email: [bim@aseanbiodiversity.org](mailto:bim@aseanbiodiversity.org)  
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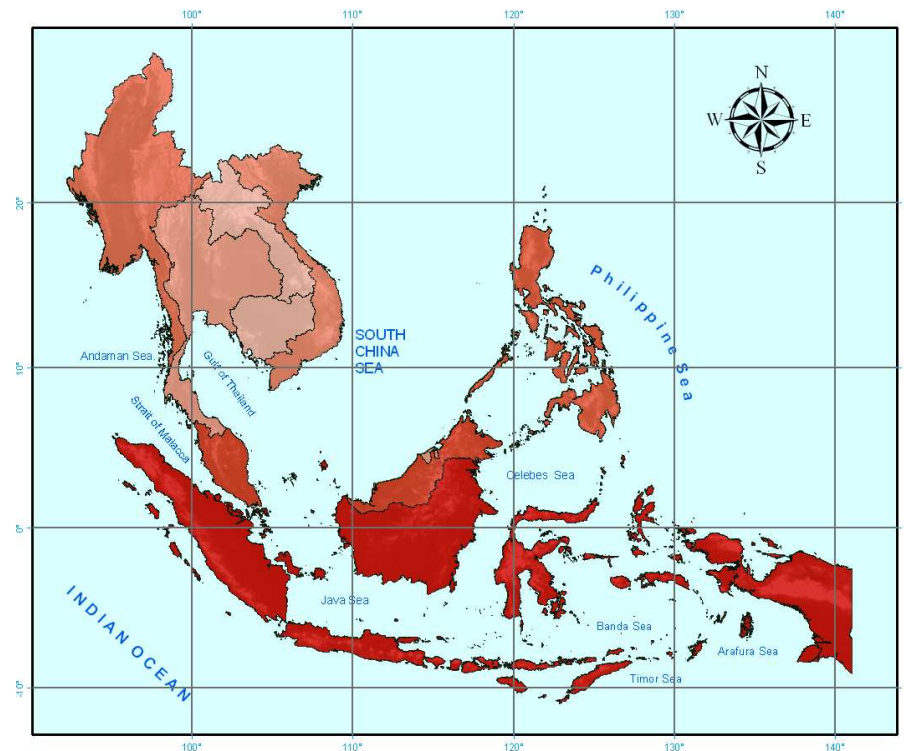
# Biodiversity Information Management and 4NR

## Biodiversity Information Sharing (BISS)

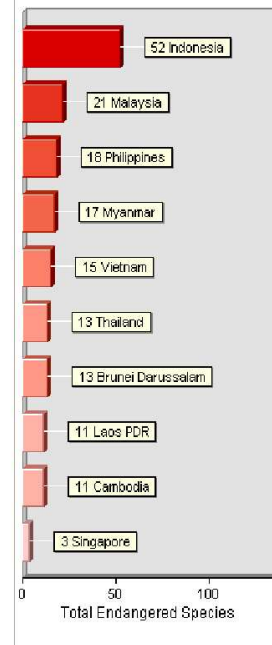


### Total Endangered Mammals

#### ASEAN Mammals 2004



Graph of Mammals 2004



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University of the Philippines Los Baños,  
College, Laguna, 4031 Philippines  
TeleFax: +6349-536-2865  
Email: [biom@aseanbiodiversity.org](mailto:biom@aseanbiodiversity.org)  
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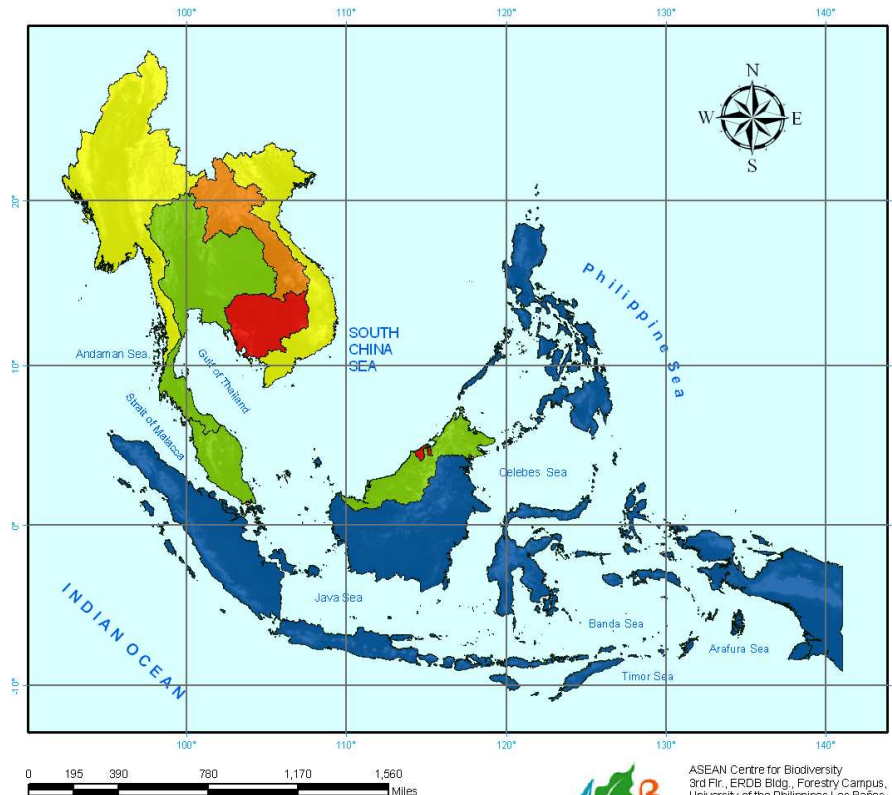
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## Biodiversity Information Sharing (BISS)

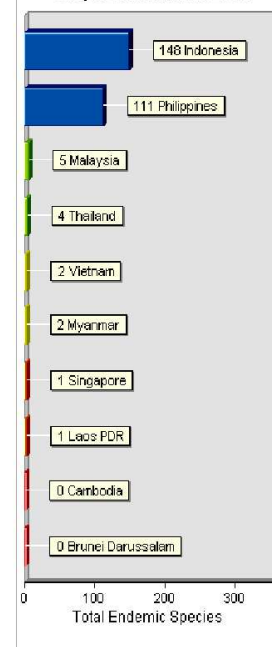


### Total Endemic Mammals

#### ASEAN Mammals 2004



#### Graph of Mammals 2004



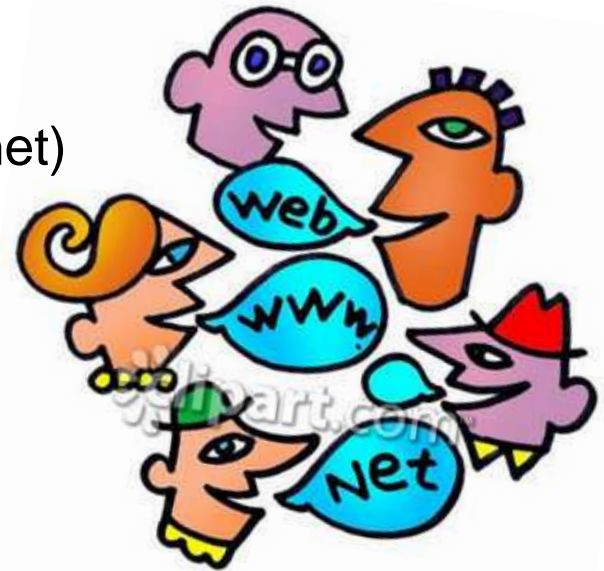
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# Biodiversity Information Management and 4NR



## 6. Framework for Biodiversity Information Sharing and Networks for knowledge sharing or Communities of Practice(CoP) - Ongoing preparations

- CoP for the CHM National Focal Points and Website Administrators
- Protected Area Learning Network (PALnet)



# Challenges



- Information in the AMS reside in various agencies and may not be in a readily useful format
- Gathering of information remains a challenge
- AMS have varying levels of consolidation of biodiversity data
- Data sharing remains an issue for most AMS



# Ongoing Initiatives



- Ongoing work on Biodiversity Indicators and validation and verification of data availability via ACB's National Contact Points
- Partnership with UNEP WCMC – ACB to serve as regional node for WDPA. AMS have commitments to update PA data
- Partnership with WorldFish on OBIS and with GBIF on Biodiversity Information links
- Internal redesign of the BISS from static content to dynamic map-based application
- Establishment of the Biodiversity Information Network including the CHM Focal Points



# Next Steps



- ACB's will serve as the ASEAN hub for protected area information
- ACB will strengthen its link with the AMS and the global WDPA of UNEP WCMC to facilitate the updating and monitoring of the terrestrial and marine PA networks
- ACB will consider the data needs identified in the previous PA Gap Analysis Study in the current re-design process of BISS.
- BISS and the regional CHM will be the main locations of relevant PA and species information that will be useful for national and regional reports on biodiversity





**ASEAN CENTRE  
FOR BIODIVERSITY**



**Conserve biodiversity..  
Save humanity!**



[www.aseanbiodiversity.org](http://www.aseanbiodiversity.org)



**Thank you....**

