



24-28 NOVEMBER 2008

THE SECOND ASIAN LEPIDOPTERA CONSERVATION SYMPOSIUM 2008

PROTECTION OF FAUNA IN PENINSULAR MALAYSIA

by

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- ◆ BIODIVERSITY PROTECTION
- ◆ HABITAT PROTECTION
- ◆ CONCLUSION



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BIODIVERSITY UNDER THE MALAYSIAN CONSTITUTION



◆ Federal List:

- International treaties
 - CITES, CBD

◆ State List:

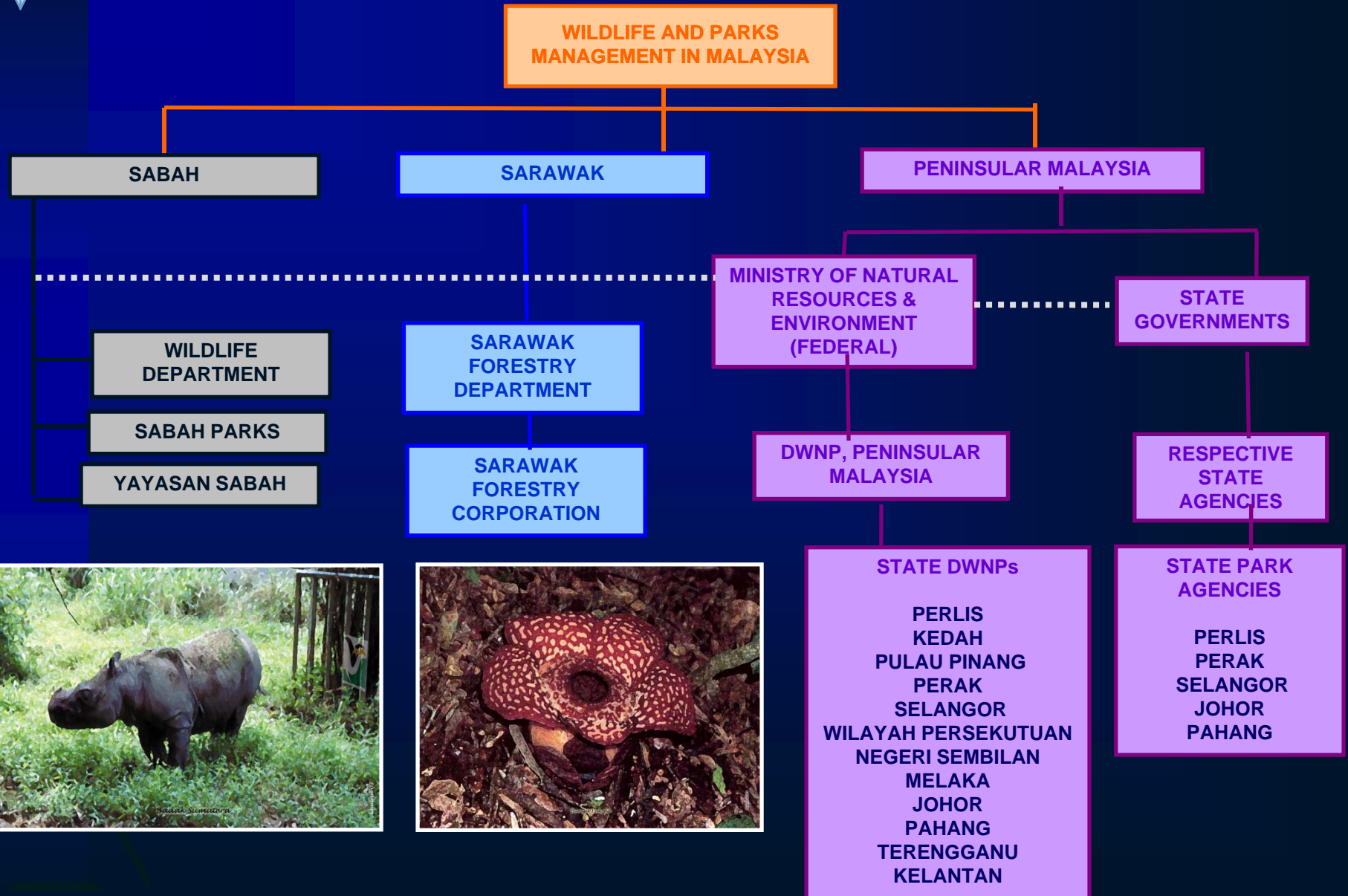
- Land
- Forestry

◆ Concurrent List:

- Wildlife
 - Peninsular – Federal Govt.
 - Sarawak & Sabah - States
- & National/State Parks
 - Peninsular – Federal & States
 - Sarawak & Sabah - States



MANAGEMENT OF WILDLIFE & PARKS IN MALAYSIA





WILDLIFE AND PARKS MANAGEMENT IN PENINSULAR MAYSIA MALAYSIA



- 1903: Chior WR, Perak: First PA
- 1939: Taman Negara National Parks
- 1972: Protection of Wildlife Act
 - Rajah Brooke's Birdwing
 - Federalization of DWNP
- 1978: Malaysia ratifies CITES
- 1988: 40 species of Lepidoptera protected
- 1994: Malaysia ratifies CBD & RAMSAR
- 1998: National Policy on BioD (NPBD)
- 2003: Penang National Park
- 2008: International Trade in Endangered Species Act (CITES Act)



MALAYSIA: MEGA-BIODIVERSITY NATION

Diversity of Species

- Mammals: 286
- Birds: 736
- Reptiles: 268
- Amphibians: 158
- Invertebrates (inc. insects): 150,000

Source: MOSTI, 1997



◆ Diversity of Habitats

- Lowland to Montane Ericaceous Forest
- Forest on Limestone & Quarts Ridge
- Fresh Water Swamp to Mangrove Forest

◆ Vertical Stratification

- Understory to emergent canopy

◆ Temporal Stratification

- Diurnal and Nocturnal species

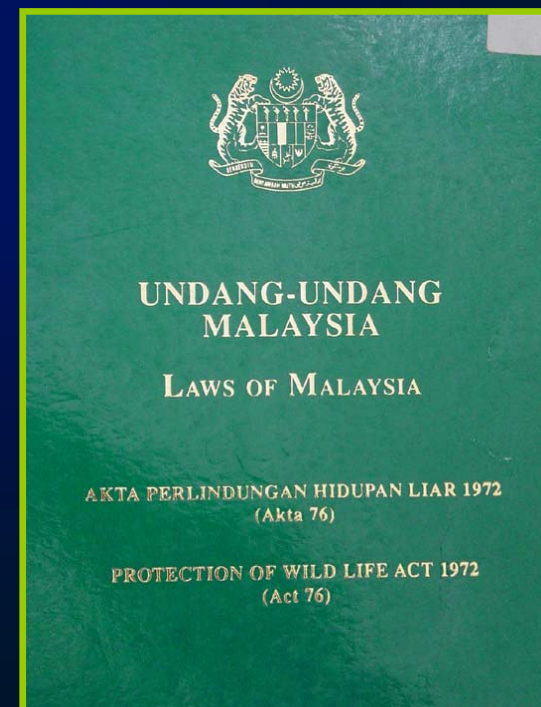
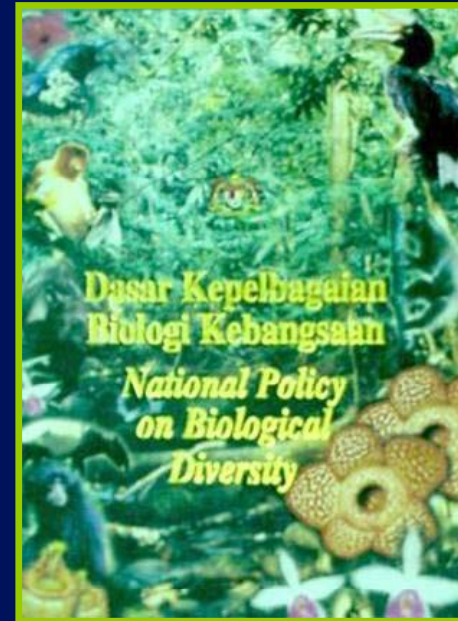


7 ◆ Giving rise to high biodiversity & challenge in protecting



FEDERAL COMMITMENTS

- ✓ Protection of Wildlife Act 1972
- ✓ National Parks Act 1980
- ✓ National Policy on Biological Diversity (NPBD), 1998
 - ✓ National Biodiversity & Biotechnological Council
- ✓ National Ecotourism Plan, 1996
- ✓ National Physical Plan, 2005
- ✓ CITES – ratified in 1978
- ✓ Convention on Biological Diversity (CBD) – ratified in 1994
- ✓ RAMSAR – ratified in 1994
- ✓ IUCN – state member since 1968
- ✓ DWNP – Federalization in 1972
Strengthening in 2004





DWNP's OBJECTIVES

- I. Biodiversity Protection**
- II. Habitat Protection**
- III. Enhancing Knowledge**



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BIODIVERSITY PROTECTION UNDER PROTECTION OF WILDLIFE ACT, 1972

PROTECTION STATUS		MAMMALS	BIRDS	REPTILES	LEPIDOPTERA	TOTAL
LOCAL SPECIES	Totally Protected	55	571	5	0	631
	Protected	17	71	2	29	119
EXOTIC SPECIES	Totally Protected	201	67	31	0	299
	Protected	357	1,028	130	11	1,526
TOTAL		630	1,737	168	40	2,575

- **Lepidoptera Protection:**
 - **1972: 1 species**
 - **1988: 40 species**

PROTECTED LOCAL LEPIDOPTERA SPECIES

No	Scientific Name	Common Name
1	Raja Brooke's Birdwing	<i>Trogonoptera brookiana</i>
2	Common Birdwing	<i>Troides Helena</i>
3	Birdwing Butterfly	<i>Troides aeacus</i>
4	Birdwing Butterfly	<i>Troides amphrysus</i>
5	Birdwing Butterfly	<i>Troides cuneifer</i>
6	Mime Butterfly	<i>Chilasa agestor</i>
7	Burmese Raven	<i>Papilio mahadeva</i>
8	Banded Peacock	<i>Papilio palinurus</i>
9	Swallowtail	<i>Graphium empedovana</i>
10	Swallowtail	<i>Meaundrusa payeni</i>
11	Swallowtail	<i>Lamproptera curius</i>
12	Green Dragontail	<i>Lamproptera meges</i>
13	Tiger Butterfly	<i>Danaus affins</i>
14	Tree Nymph	<i>Idea lynceus</i>
15	Tree Nymph	<i>Idea iasonia</i>

16	Tree Nymph	<i>Idea hypermnestra</i>
17	Tree Nymph	<i>Idea leuconoe</i>
18	Satyrid Butterfly	<i>Zeuxidia aurelius</i>
19	Satyrid Butterfly	<i>Enispe intermedia</i>
20	Indian Leaf	<i>Kallima paralekta</i>
21	Nymphalid Butterfly	<i>Prothoe frank</i>
22	Glorious Begum	<i>Agatasa calydonia</i>
23	Nawab	<i>Polyura eudamippus</i>
24	Nawab	<i>Polyura Schreiber</i>
25	Rajah Butterfly	<i>Charaxes solon</i>
26	Rajah Butterfly	<i>Charaxes harmodius</i>
27	Rajah Butterfly	<i>Charaxes distanti</i>
28	Rajah Butterfly	<i>Charaxes borneensis</i>
29	Rajah Butterfly	<i>Charaxes durnfordi</i>

PROTECTED EXOTIC LEPIDOPTERA SPECIES

30	Queen Alexandra's Birdwing	<i>Ornithoptera alexandrae</i>
31	Abbe's Allotte's Birdwing	<i>Ornithoptera allottei</i>
32	Chimaera Birdwing	<i>Ornithoptera chimaera</i>
33	Goliath Birdwing	<i>Ornithoptera goliath</i>
34	Meridional's Birdwing	<i>Ornithoptera meridionalis</i>
35	Paradise Birdwing	<i>Ornithoptera paradisea</i>
36	Queen Victoria's Birdwing	<i>Ornithoptera victoriae</i>

37	Apollo Butterfly	<i>Parnassius Apollo</i>
38	Luzon Swallowtail	<i>Papilio chikea</i>
39	Homerus Swallowtail	<i>Papilio homerus</i>
40	Corsican Swallowtail	<i>Papilio hospiton</i>



BIODIVERSITY PROTECTION

Maintaining viable populations



ELEPHANT



TIGER



SAMBAR DEER



MALAYAN HONEY BEAR



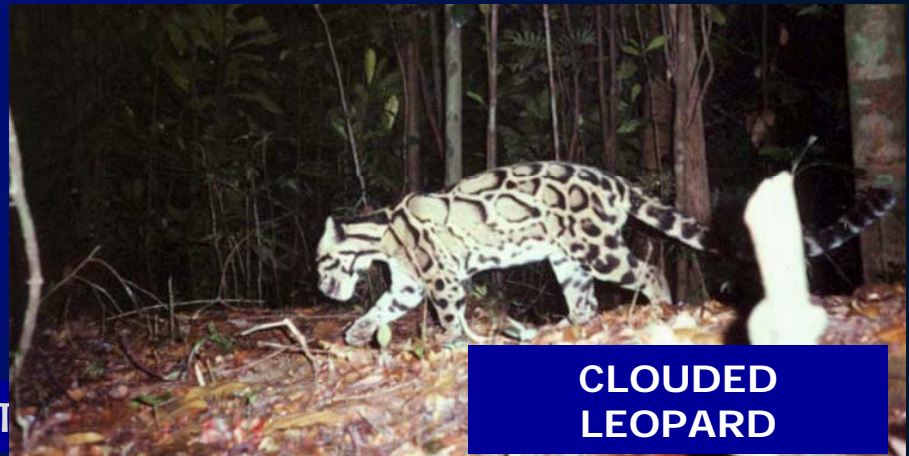
TAPIR



BIODIVERSITY PROTECTION



USING INFR-RED CAMERS FOR INVENT



CLOUDED
LEOPARD



GOLDEN CAT



MALAYAN WILD DOGG



STORM STORK



BIODIVERSITY PROTECTION DEALING WITH ELEPHANT & HUMAN CONFLICT



Over 1,000 complaints of
elephant intrusion

- wildlife control units at state
& district levels
- response within 3 days



TRANSLOCATION OF ELEPHANT AT PAHANG



Orang Asli from two villages trekked several kilometres for the rare opportunity to get up close to a wild bull elephant.

TEMERLOH: The relocation of a wild bull elephant from Kampung Pandau, Lanchang, became a carnival of sorts when more than 500 Orang Asli in the vicinity thronged the area.

Perhilitan (DWNP's) elephant unit chief Nasharuddin Othman said the bull elephant was one of the biggest that the unit had caught.....(will be released) in the forest reserve at Kenyir Lake in Terengganu.

(Orang Asli resident)...Lamin Resman, 18, said the wild bull elephant that was relocated had destroyed the fruit trees at his father's orchard.



BIODIVERSITY PROTECTION

TRANSLOCATION OF PROBLEM ELEPHANTS



Conserving our wild elephants on site continues to be a big challenge

- Formation of the National Elephant Conservation Centre, Lanchang, Pahang

Since 1974 about 500 wild elephants relocated

- Taman Negara NP
- Belum State Park
- Endau Rompin NP



Wild Elephants Being Relocated To Taman Negara NP



BIODIVERSITY PROTECTION: RESOLVING TIGER-HUMAN CONFLICTS



SETTING UP A TRAP AT A SERIOUS CONFLICT SITE WHERE A TIGER HAS KILLED MANY CATTLE



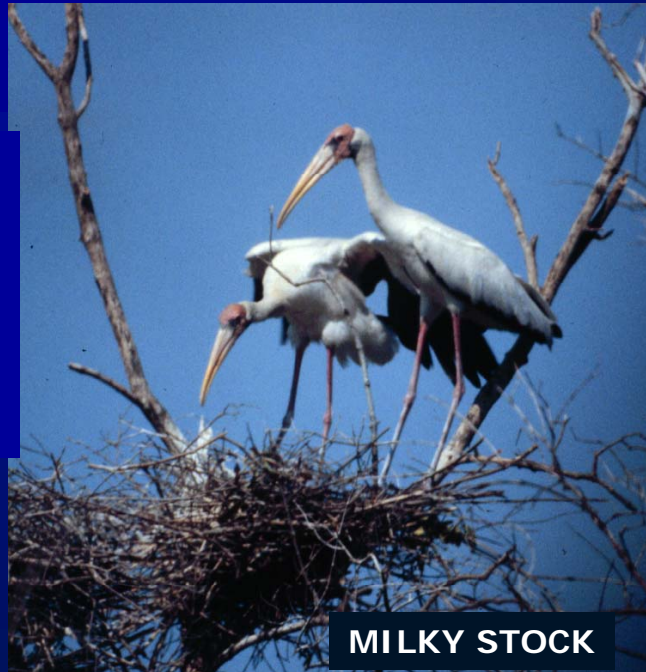
Captured Tiger Brought Into Captive Breeding Program At Malacca Zoo
• 30 Wild tigers brought into captivity

8 2002



BIODIVERSITY PROTECTION: MIGRATORY BIRDS

Protection
for diverse
migratory
species
and water
birds



MILKY STORK



GREY HERON



LITTLE HERON



GREEN SHANK



EGRETS



ENFORCEMENT:

Raid nets RM3mil in exotic wildlife



- ◆ KUALA LUMPUR: More than RM3mil worth of live and dead animals were seized when the Wildlife and National Parks Department raided two locations in Johor last week.
- ◆ Among the animals were 7,000 clouded monitor lizards, 1,000 owls, pangolins, crested serpent eagles, pythons, mousedeer, Malayan porcupine and wild pigs. Bear parts were also found in the raid.
- ◆ A 49-year-old man was charged in a magistrate's court in Tangkak on Nov 7 and is out on a RM19,000 bail. Director-general Datuk Abd Rasid Samsudin said that this was the second time the thman had been detained.

Source: The Star. Thursday November 13, 2008



FRIDAY NOVEMBER 21, 2008 (DWNP) USES INTERNET TO STOP WILDLIFE TRADER

PETALING JAYA:the Wild-life and National Park Department (Perhilitan) trawled the Internet ...found a man offering to sell protected wildlife.....

When officers inspected his car, they found seven Ball pythons, four Burmese pythons, one Green Tree python, one Carpet python and two Blood pythons.

On Wednesday,28, was fined RM9,300 by a Petaling Jaya magistrate after pleading guilty to possession of five protected species of snakes.

Perhilitan legislation and enforcement division director Dr E. Sivanathan said there were blogs where people advertise the sale of wildlife.

"We are actively looking at this avenue now to catch these violaters," he said yesterday.....

Source: The Star, 21 November, 2008



BIODIVERSITY PROTECTION: ENFORCING CITES IN MALAYSIA

- ◆ 1978: Malaysia ratified CITES
- ◆ 1977- now: Enforcement via domestic legislation
- ◆ 2008: International Trade in Endangered Species Act
 - Ministry of Natural Resources and Environment (NRE):
Lead Management Authority & Scientific Authority
 - 7 CITES Management Authorities
 - Department of Wildlife and National Parks (DWNP)
 - Malaysian Timber Industrial Board (MTIB)
 - Fisheries Department
 - Agriculture Department
 - Sabah Wildlife Department
 - Sabah Fisheries Department
 - Sarawak Forestry Department

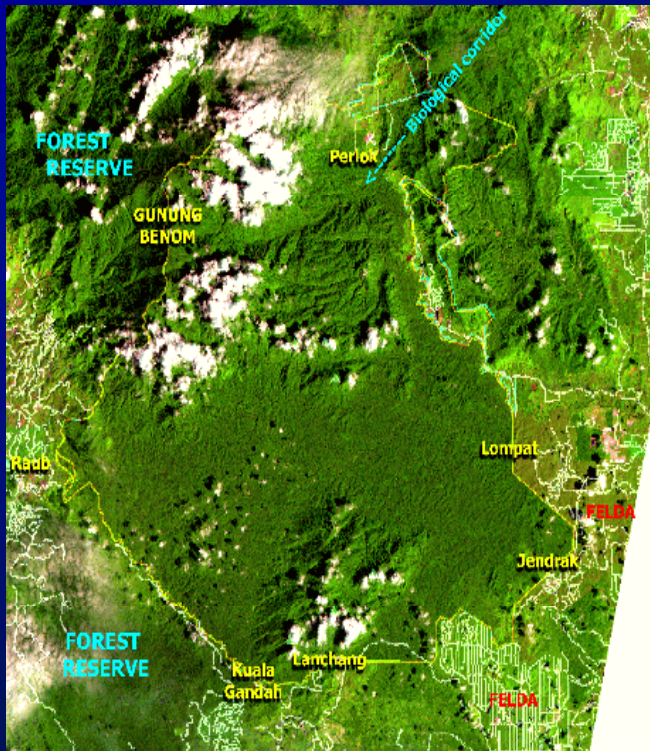


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HABITAT PROTECTION



- Protection of diverse habitats
- Present extent covers 6% (750,000 ha) of Peninsular Malaysia
- Increase the acreage of protected areas
 - Federal PAs
 - State PAs
 - Collaborative PAs





HABITAT PROTECTION

DIFFERENT CATEGORIES OF PROTECTED AREAS

3 Components of Protected Area:

- geographical area demarcated
- designated or regulated by law
- managed to achieve specific conservation objectives

Convention of Biological
Diversity

- **National Parks**
- **Wildlife Reserves**
- **Wetland (RAMSAR) Sites**
- **State Parks**
- **Forest Reserves**
 - Protected FRs
- **Urban Parks**





PROTECTED AREA

Penang National Park



A new (est.2003) PA designated under the National Parks Act of 1980



Miromictic Lake



White bellied sea eagle



HABITAT PROTECTION: Importance of protecting diverse habitats

- 50% mammals found below 330m a.s.l.
- 80% mammals found below 660m a.s.l.
- 9% can exist at any altitude

•Source: Stevens (1968)



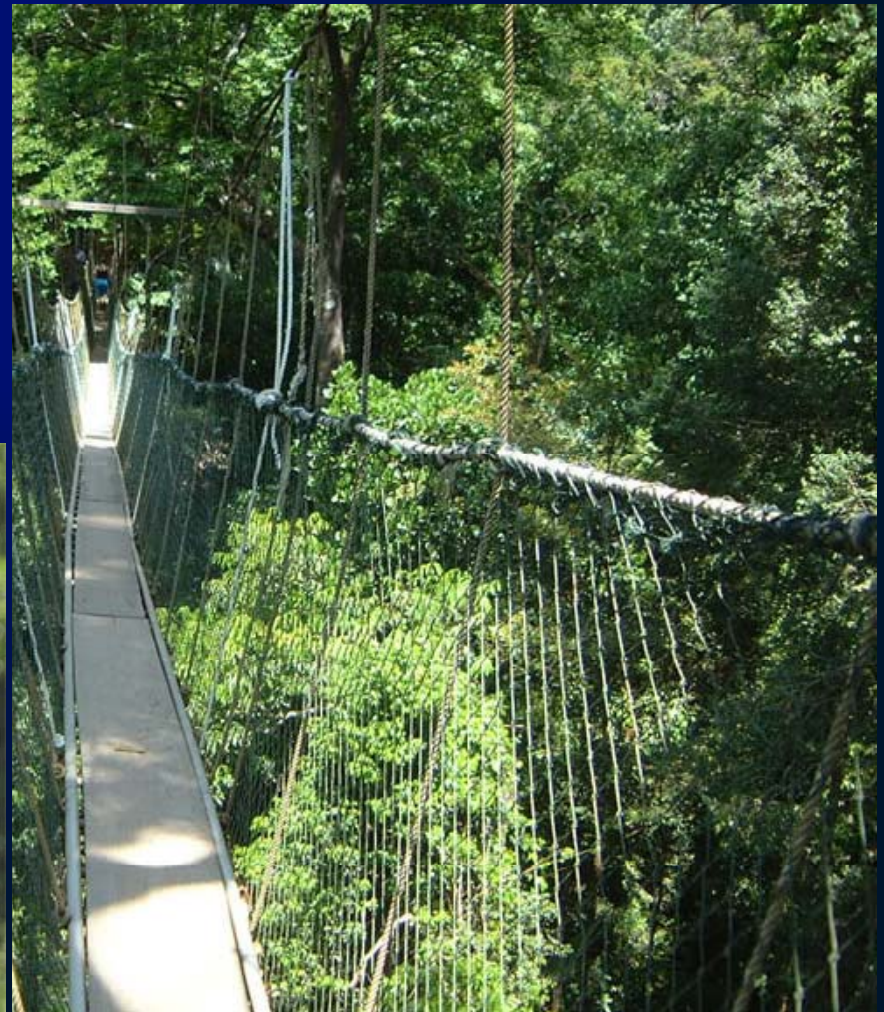


HABITAT PROTECTION

- Biodiversity protection
- Ecotourism
- Research
- Education

Inventory & Monitoring

- > 30 sites inventoried
- 20 in 9th MP
- Insects inventoried





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ENHANCING KNOWLEDGE

- ◆ The National Policy on Biological Diversity
 - Calls for enhancing scientific knowledge
 - More emphasize on Environmental Education
- ◆ DWNP welcomes dissemination of information in the Journal of Wildlife & Parks
- ◆ Welcomes efforts such as the enhancing research and education on Lepidoptera
 - Update list for species protection
 - Habitat protection
 - Specific efforts under the 10th Malaysia Plan
 - Relook at urban park management
 - Habitat enrichment, including at Penang National Park



TERIMA KASIH

Thank You

Acknowledgement:

- Dato' Abd Rasid Samsudin, Director General, DWNP
- Penang Butterfly Park
- Superintendent, Penang National Park

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