



Biodiversity Capacity Building in Malaysia using Information Technology

Mohd Shahir Shamsir

Suzanna Noor Azmy

Nurul Shakina Mohd Talkah

Ilylia binti Zulkifli

Teong Han Chew

Parveen Bal

Bioinformatics Research Group (birg),
Universiti Teknologi Malaysia (UTM),
Malaysia

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Team



**Dr Mohd Shahir
Shamsir bin Omar
(Supervisor)**



**Chew Teong Han
(Research Officer)**



**Hamed Bostan
(Research Assistant)**



**Tan Kwee Hong
(Research Assistant)**



**Farizuwana Akma binti
Zulkifle (Master
Student)**



**Lau Cher Chien (Master
Student)**



**Leong Geok Wei
(Master Student)**



**Lee Sheau Chen
(Master Student)**



**Muhammad Nor Akmal
bin Ismail (Master
Student)**



**Nurul Shakina bt Mohd
Talkah (Master
Student)**



**Suzanna Noor Azmy
(Master Student)**

Biodiversity Databases

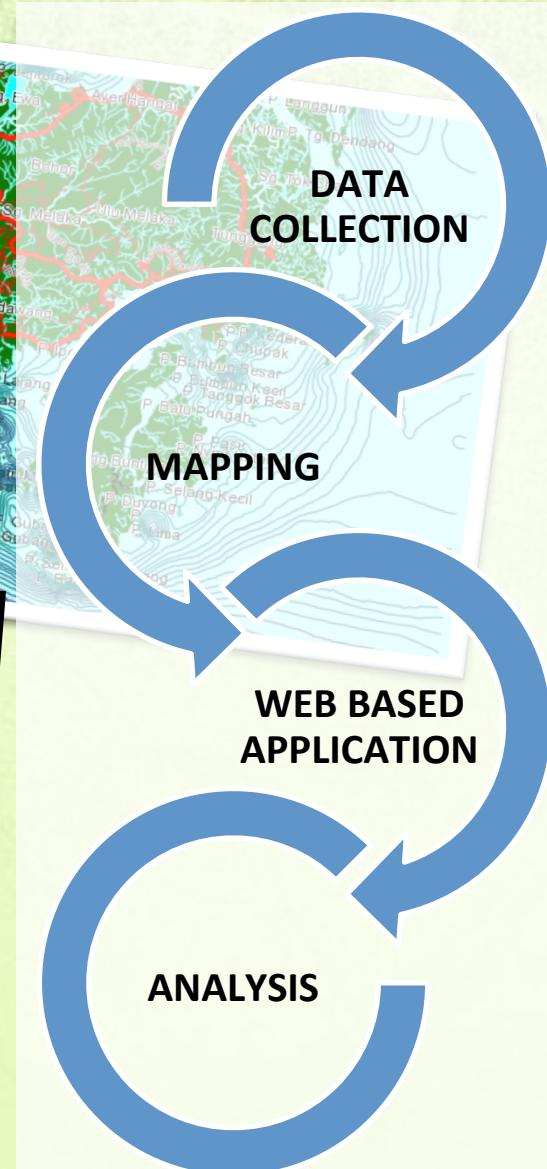
The image displays five different biodiversity database interfaces arranged in a grid-like collage:

- JBioDi (Top Left):** A blue-themed interface with a sidebar featuring a large image of a flower and various links like 'Utama', 'Maklum Balas', 'Acara', 'Bantuan', 'JBioDi', and 'Soalan Lazim'.
- amphibia.my (Top Middle):** A black-themed interface for amphibians and reptiles of Peninsular Malaysia, featuring a logo with a frog, a search bar, and a 'HAK MILIK' section.
- Langkawi MANGROVE BIODIVERSITY DATABASE (Top Right):** A white-themed interface for the Langkawi mangrove database, showing a search bar and navigation links for Home, About Us, Species, Resources, Contact Us, and Login.
- ERCP (Middle Left):** A grey-themed interface for the Endau Rompin Conservation Project, featuring logos for MAI and ERCP, a search bar, and navigation links for Home, Data, Publications, Events, Forum, FAQ, and Help.
- BIOknome (Bottom):** A maroon-themed interface for the BIOknome project, featuring a large image of a river scene, a search bar, and navigation links for Home, Data, Events, Forum, FAQ, and Help.

GIS Mapping

The collage includes:

- A screenshot of the Bioinformatics Research Group (BIRG) Johor Biodiversity Database website.
- A topographic map of a coastal area with contour lines and place names like Padang Mat Sarai, P. Burau, and P. Tekek Baban.
- A circular diagram illustrating the GIS process: DATA COLLECTION, MAPPING, WEB BASED APPLICATION, and ANALYSIS.
- A screenshot of a desktop GIS application showing a map of Sabah with various land use layers (e.g., Crocker Range Park, Roads, Rivers) overlaid.
- A banner for the "Projek Pemetaan Kepelbagai Biologi Mersing" featuring an orange fish and a forest scene.
- A banner for the "Sabah Topography Map" featuring a large flower and a group of people.



Mapping & Mobile Reporting

Crime Feeds (ALPHA version)

Empowering Community Against Crime

HOME REPORTS ANDROID / IPHONE + SUBMIT A REPORT

FILTERS → REPORTS NEWS PICTURES VIDEO ALL FULL SCREEN MAP

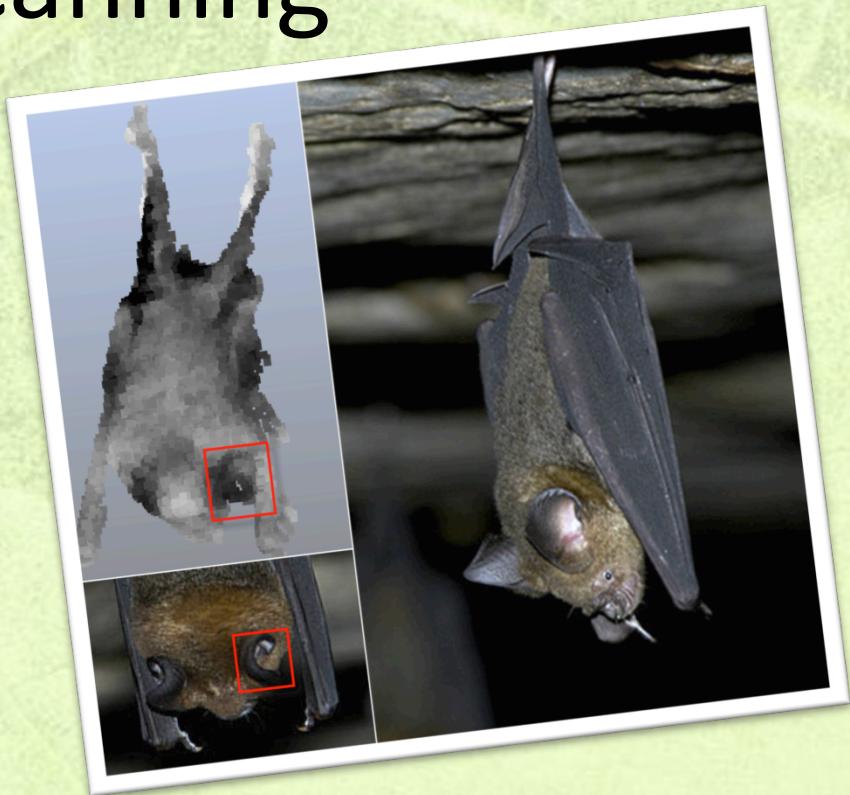
Map data © MapTiler, OpenStreetMap contributors, and the National Atlas - Terms of Use

Scale = 1 : 217K 0.00000, 0.00000 EPSG:900913

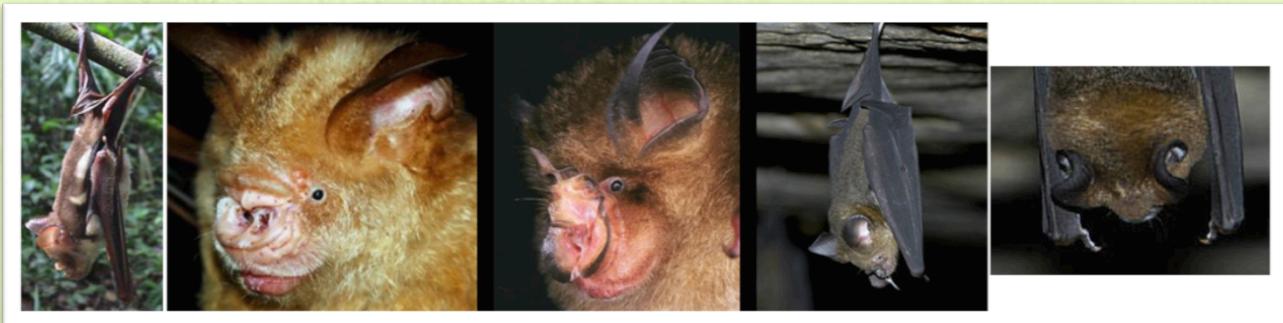
Laser Scanning



SPELEOLOGICAL SURVEY



SPECIES IDENTIFICATION



360 Panoramic Biodiversity Observation



Introduction

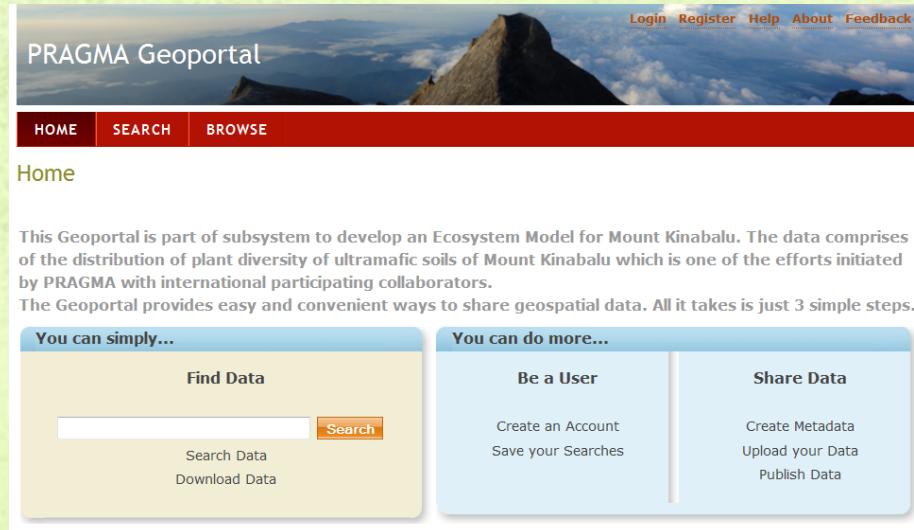
- Biodiversity data issues
 - Mismanagement
 - Legacy, flat files
 - Data sharing
- Malaysia
 - Mega diversity but data available not significant
- Our efforts
 - Biodiversity informatics and support

Our Efforts

- Knowledge discovery
- Information management
- Information sharing
- Information outreach

Knowledge Discovery

- Geoportal
 - Member of PRAGMA biodiversity team
 - Metadata host for Mt Kinabalu flora
 - Part of pragma grid for ultramafic environment studies



Information Management

- Phyknome
 - Ethnobotanical & Phytochemical Knowledge DB
 - 20,000 species of Malaysian plants
 - <http://mapping.fbb.utm.my/phyknome>
- Others
 - ERCP: M'sia national park DB
 - JMarine: Johor marine DB

The screenshot shows the phyknome website. At the top, there is a navigation bar with links: Home, Researchers, Gallery, Herbs and Plants, Resources, and Contact Us. Below the navigation bar is the phyknome logo, which features a stylized green leaf icon next to the word "phyknome". A large image of white peppercorns is displayed. To the right of the image is a text box with the following content:
Piper nigrum
White pepper originated from the same species as black pepper which is from the family of Piperaceae. Among other benefits, pepper contains piperine that accelerates energy metabolism in the body.
[Read more](#)

The screenshot shows the ERCP (Ethnic Rainforest Conservation Project) website. The header includes the ERCP logo and links for Home, Biotic, Abiotic, Gallery, and FAQ. Below the header is a large image of a suspension bridge spanning a river in a dense forest. At the bottom of the page, there is a "About Us" link.

The screenshot shows the JOHOR MARINE BIODIVERSITY DATABASE website. The header features the project name and a search bar. Below the header is a dark blue sidebar with the text "The Open Sea Environment" and a "Read More" button. The main content area shows a large image of a glowing squid swimming in the ocean.

Information Sharing

- GBIF
 - 1st and only node in M'sia (thanks ACB)
 - 6 datasets
 - Amphibians
 - Reptiles
 - Moss
 - Fern
 - Mangrove
 - <http://birg4.fbb.utm.my:8080/ipt>



Information Outreach

- Mobile app
 - Species identification
 - Amphibian
 - Birds



ARAA > Result (1/66)

Attribute(s) Matched : 4

Scientific Name
Ansonia Jeetsukumaranai

Snout Length
Males up to 19.9mm; Females up to 25.3 mm

Previous Next

Home Identify About Back

USM Burung > Identify

Bill Colour
Black

Body Upperpart Colour
Black

Body Underpart Colour
Black

Leg Size
Long

Home Identify About Back

ARAA > Result (1/30)

Attribute(s) Matched : Not Available

Family
Not Available

Scientific Name
Prinia flaviventris

Previous Next

Home Identify About Back

Thank You