



Conserving Biodiversity in a Changing Landscape

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FORESTRY AND ENVIRONMENT DIVISION

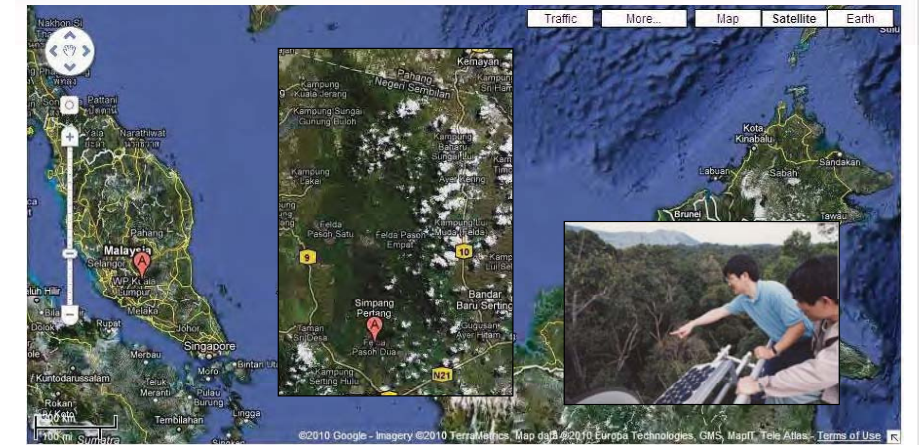
Forest Research Institute Malaysia – FRIM

Case study: Pasoh Forest Research Centre for Tropical Forest Ecology



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Location



3° 0' 0 N, 102° 19' 60 E



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Then

1969 – First project: Royal Society of England & Malaysian government under the International Biological Programme (a UNESCO initiative).



1970-1980s -The Japanese Society for the Promotion of the Science and the University of Aberdeen, Scotland joined

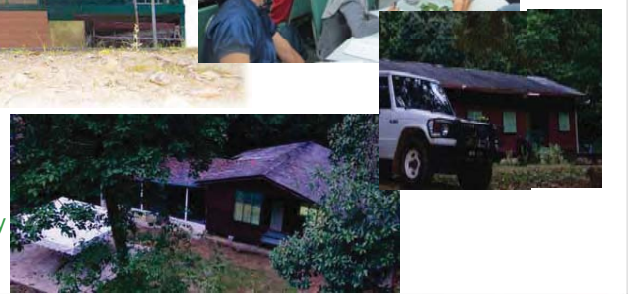


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Now

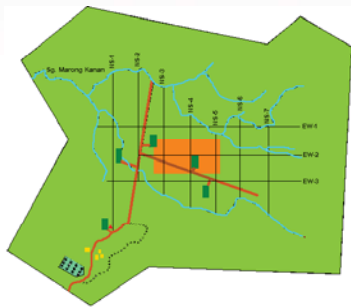


- Facilities include:**
- Seminar room (30 pax)
 - Hostel rooms (30 pax)
 - Camping ground
 - Electric and water supply
 - Computer and internet



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Now



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METRE



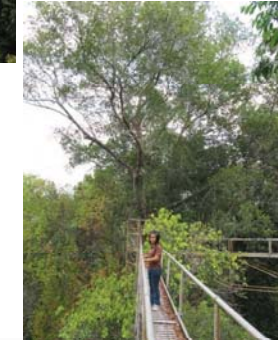
Research facilities:

- 2ha arboretum
- 50ha permanent ecology plot
- Laboratories with scientific instruments
- Five 2ha research plots
- Climate station



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Now



Other attractions:

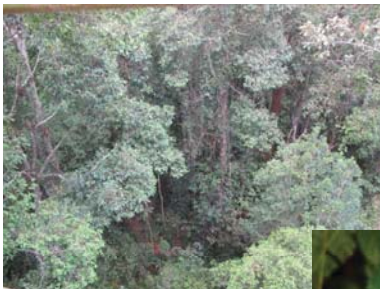
- Three alluminium-alloy tower (up to 52m high)
- canopy walkway system (475m long)
- Nature trail with 67 observation points



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Diversity

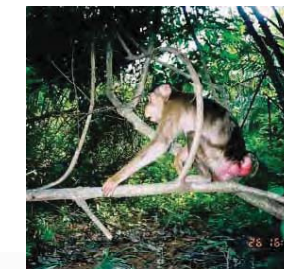
- **340,000 trees** (≥ 1 cm diameter at breast height) consisting of **814 species** (Pasoh 50 ha) - 25% of the tree species in Peninsular Malaysia
- $\frac{1}{4}$ of all palm species in Peninsular Malaysia



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Diversity

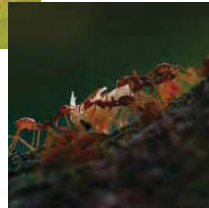
- **112 species** of mammals representing 56% of the total mammal species in Peninsular Malaysia
- **413 moth species** including 40 new records to Peninsular Malaysia previously known only from Borneo



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Diversity

- 233 species of birds
- 75 species of herpetofauna; 26 amphibians, 24 tortoises, turtles and lizards and 25 species of snakes
- 57 species of termites and 9 species of stingless bees



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Our Vision, Our Mission

Vision

To become a centre of excellence for Tropical Forest Ecology Research

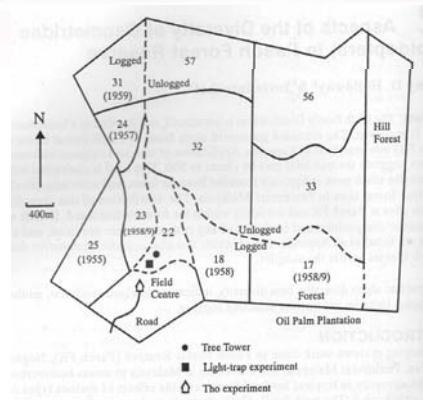
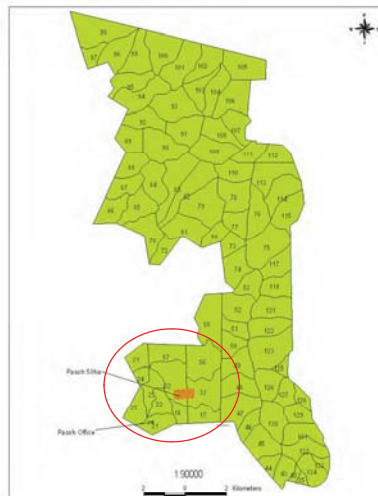
Mission

- To develop Pasoh FRS as a center for research and education on forest ecology and ecosystem
- To develop Pasoh FRS as a eco-tourism and eco-education center of global standards
- To provide services and training among the public on the importance of forest to the environment and human life



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Pasoh Forest Reserve



1840 ha gazetted as Research Forest by the State Forestry Department



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Current Research Collaboration

FRIM/STRI/CTFS-AA Joint Research Project

Centre for Tropical Forest Sciences (CTFS)-Smithsonian Tropical Research Institute/Harvard University-Arnold Arboretum - USA

Carbon Initiative and Plant Functional Traits – since 2007

50-ha Tree Dynamic Plot – since 1985



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Current Research Collaboration

FRIM/STRI/CTFS-Taiwan University Research Project

Seed and seedling dynamic long term monitoring – since 2001



Current Research Collaboration

FRIM/NIES/UPM/FDNS/UTM Joint Research Project

National Institute for Environmental Studies, Japan
Universiti Putra Malaysia
Forestry Department Negeri Sembilan
Universiti Teknologi Malaysia

Collectively have more than 10 active projects in research areas such as carbon stock and climate change, biodiversity, watershed management, socio-economic studies, database and networking – since 1991



Achievement

RESEARCH: Global recognition for tropical ecology research since 1970s



CAPACITY BUILDING: At least 10 graduate thesis



SERVICES: Venue for annual local & international forest ecology/biology courses



KNOWLEDGE: Over 100 publications; journals, books, articles



Future Plans

1. Tropical Ecology and Assessment and Monitoring Project (TEAM) – Conservation International/CTFS (US)
2. Personnel Development and Climate Change Awareness Programme – Hong Kong and Shanghai Banking Corporation (HSBC)
3. Declaration of Pasoh as a National Natural Heritage Site under the National Heritage Act 2005 – FRIM, State Forestry Department, Malaysian Ministry of Natural Resources and Environment





Where and How Can the Private Sector Contribute?

- Non-research technical expertise i.e. development, infrastructure
- Sponsoring/co-organising research and training development programmes
- Participating in research through personnel volunteer programmes/schemes



Thank you

ありがとう

